

1967

## Gorham State College Catalog 1967

Gorham State College, University of Southern Maine

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*George Barker*

# GORHAM STATE COLLEGE

Catalog for 1967

*Barker*



# Academic Calendar 1966-67

1966

## First Semester

September 11	Residence Halls for Freshmen Open at Noon
September 13	Residence Halls for Upper Classmen Open at Noon
September 12-14	Registration and Testing Adviser-Advisee Conferences Faculty and Departmental Meetings
September 15	Classes Begin
October 6-7	MTA Convention Classes in Session
November 11	Veteran's Day — No Classes End of First Quarter
November 15	Mid-Term Grades Due in Registrar's Office
*November 24-25	Thanksgiving Recess (Classes End at Noon on Nov. 23)
November 27	Residence Halls Open at Noon
November 28	Classes Resumed
*December 16	Start of Christmas Recess (Classes End at Noon on December 16)

1967

January 3	Residence Halls Open at Noon
January 4	Classes Resumed
January 16-20	Examination Week
January 23-27	Between Semesters Recess

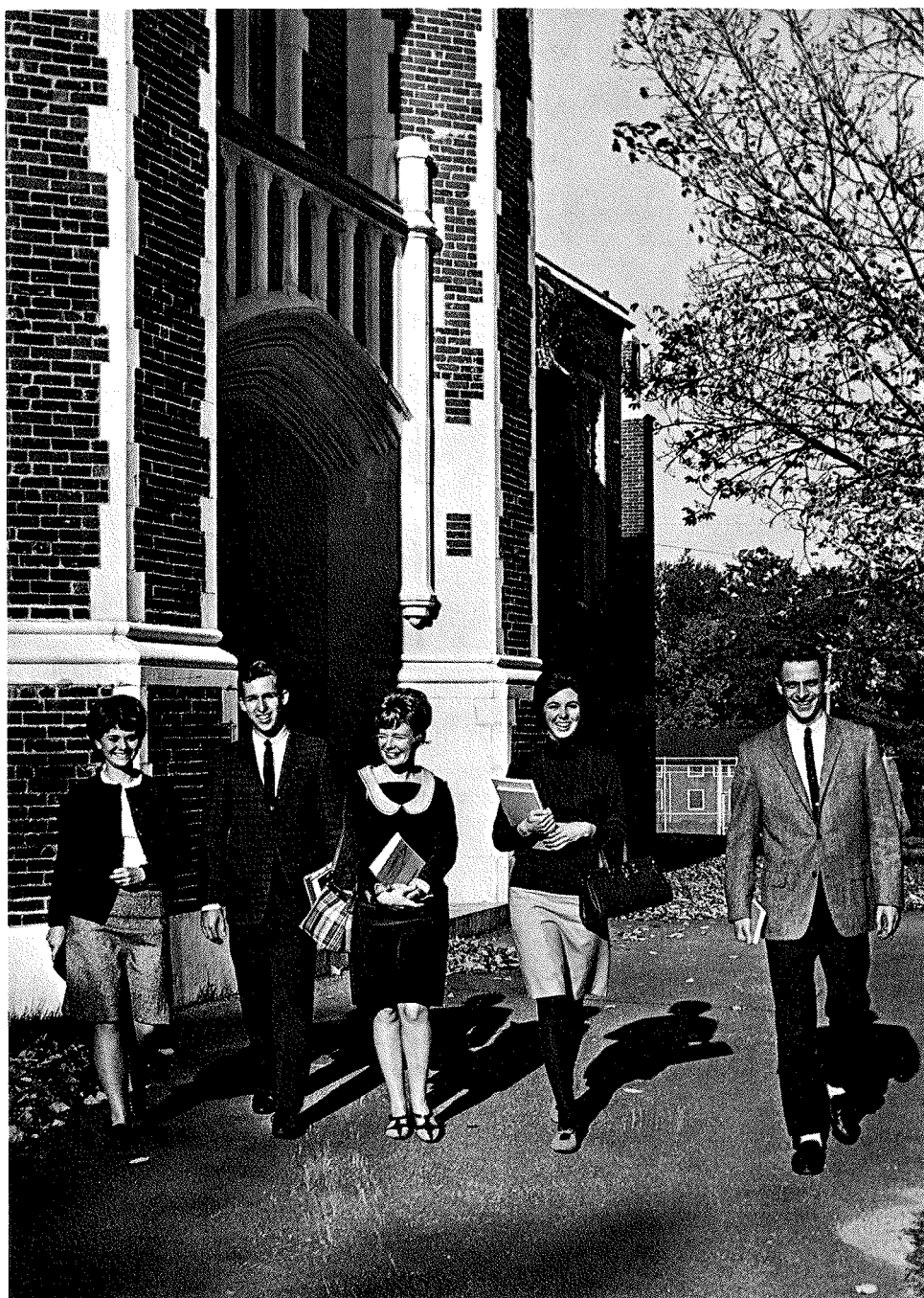
## Second Semester

January 29	Residence Halls Open at Noon
January 30	Registration for Second Semester
January 31	Classes for Second Semester Begin
February 22	Washington's Birthday — No Classes
March 24	End of Third Quarter — Spring Recess Begins at 5 P.M.
April 2	Residence Halls Open at Noon
April 3	Classes Resumed
April 11	Third Quarter Grades Due in Registrar's Office
April 19	Patriot's Day — No Classes
May 25-June 2	Examination Week
May 30	Memorial Day — No Classes
June 4	Baccalaureate and Commencement

## Student Teachers Vacation Schedule — Second Semester

February 1	Start of Student Teaching
February 20-24	Observe Public School Vacation
March 27-April 3	Observe College Vacation
April 17-21	Public School Vacation — Student Teachers Hold Seminars at College

\*During College Recesses, All Residence Halls will be closed.



# GORHAM STATE COLLEGE

Catalog for 1967 / Gorham, Maine





Bailey Hall Library

Corthell Hall



# About Gorham State College

## The History

Gorham State College began officially in 1878 when the Maine Legislature approved the establishment of Western Maine Normal School on the site of the Gorham Female Seminary. The Normal School opened on January 29, 1879 with six faculty members and 85 students.

The name of the School was changed to Gorham State Teachers College in 1945 and to Gorham State College in 1965.

The College has been served by four presidents: Dr. William Corthell (1878-1905), Dr. Walter F. Russell (1905-1940), Dr. Francis L. Bailey (1940-1960), and Dr. Kenneth T. H. Brooks, who was appointed President in 1960.

Gorham State College has developed over the years to its present size of over 1,000 students and 100 faculty members. The growth in size has been paralleled by a rapidly expanding curriculum. The industrial arts program was instituted in 1911. The College graduated its first class in the kindergarten-primary program in 1927. The first graduates in the full four-year curriculum were awarded degrees in 1938.

A program to prepare music teachers and supervisors was instituted in 1955 and one for the preparation of art teachers and supervisors in 1958. In the fall of 1966 the curriculum was expanded to include preparation for teaching at the secondary level.

The College has long conducted a summer session and in 1964 established a graduate school.

## Accreditation and Membership

The College is accredited by the New England Association of Colleges and Secondary Schools and the National Council for Accreditation of Teacher Education.

A membership is held in the Association of State Colleges and Universities, the American Council on Education, the American Association of Colleges for Teacher Education and the American Association of University Women.

## The Objectives

The major purpose of Gorham State College is to provide a continuing supply of graduates to serve public education in the areas of Kindergarten-Primary, General Elementary, Junior High and Secondary education, and the special fields of Art, Industrial Arts, and Music Education.

The College seeks to produce graduates of professional competence and personal character whose careers will reflect their dedication to an effective program of teacher education. Specifically, Gorham State endeavors to prepare students who, upon graduation, will meet these requirements:

- Academically competent teacher-candidates who are products of a responsible process of selection and retention.
- Those who have experienced a program of academic excellence providing both breadth through general education and depth in their special areas.
- Those with a sound understanding of self, of human growth and development, of the teacher-learning process, and of the cultural foundations of education.
- Those who have acquired sufficient student-teaching experience to enter professional life with a minimum of delay or difficulty.
- Those whose professional orientation enables them to understand, as well as assume, their roles in a democratic society, its schools and communities.

## The Location

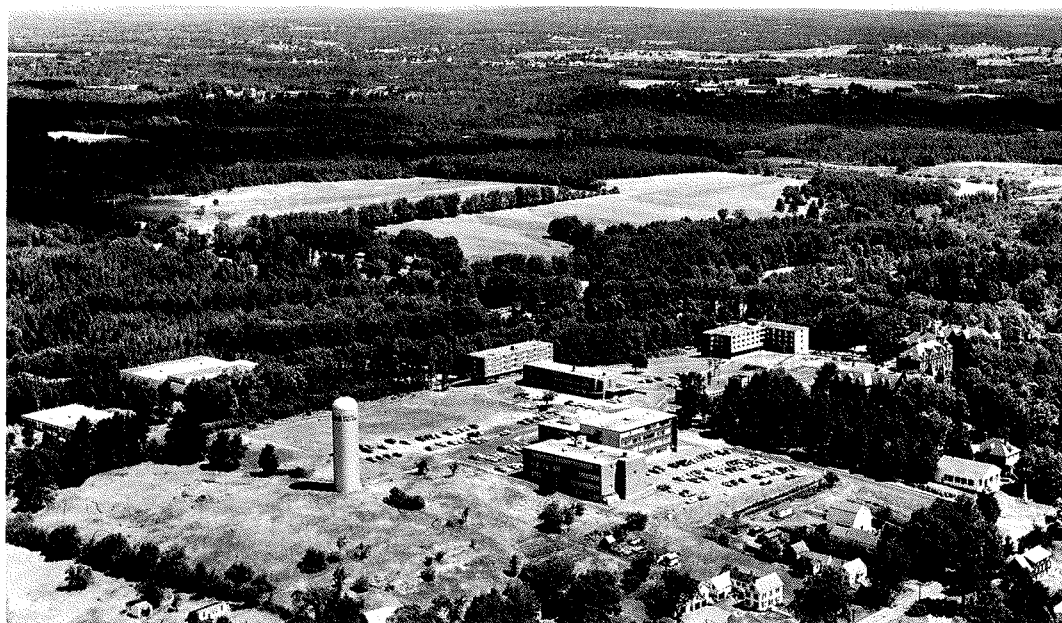
The College is located in the town of Gorham in the heart of southern Maine's most attractive cultural and recreational area. Portland, largest city in the state and only ten miles from the campus, offers many opportunities for the enrichment of student life.

The quiet serenity of a residential town has assured an ideal college setting. Through educational and civic activities both the students and faculty take a vital interest in the community and, in turn, many residents of Gorham warmly support college events.

Boston is only two hours traveling time from the campus and provides a cosmopolitan experience and unparalleled research facilities for students and faculty alike. Easily accessible to the College is the Sebago Lake Region, a nationally famous resort area. The White Mountains are an hour's drive from the campus, and the Maine seacoast is easily reached in a half hour.

Thus, students and faculty at the College find the advantages of both city and country living within easy reach — winter and summer sports, cultural events, libraries, and a wide variety of social activities.





## The Campus

Surrounded by towering pines and hardwoods, the 85-acre campus stands on a hill overlooking the town of Gorham to the south and the Sebago-White Mountain region to the northwest.

The architecture of the 15-building campus is a blend of traditional and modern designs. Earlier buildings express the College's deep traditions while those in the contemporary mode reflect the rapid development.

Major campus buildings include:

- **Bailey Hall Science Wing (1958)** — Contains the classrooms, laboratories and offices of the Science and Mathematics Departments, greenhouse, and a science museum maintained by faculty and students and available to visitors upon request.
- **Bailey Hall Library Wing (1961)** — Named for the third president of the College, Dr. Francis L. Bailey, the building contains a 45,000 volume library in a highly adaptable complex of stacks and reading areas. Included are conference rooms, a study-smoker and music listening area. The east side of the building contains classrooms, conference rooms, lounges, faculty offices and facilities for closed circuit television.
- **Warren G. Hill Gymnasium (1963)** — Bears the name of a former Maine Commissioner of Education and graduate of the College. The 2,500-seat gymnasium provides facilities for men's and women's physical education, locker rooms, classrooms, and offices of the Health and Physical Education Department. The gymnasium is used for intramural and inter-collegiate athletics and other college functions.
- **Woodward Hall (1955)** — Named for a former Vice-President of the College, Louis B. Woodward, the building provides dormitory accommodations for 96 resident men students.
- **Woodward Hall Extension (1963)** — Contains lounges, study areas, and dormitory accommodations for 106 resident men students.

## CAMPUS

• **Russell Hall (1931)** — Bears the name of the second President of the College, Dr. Walter F. Russell. Contains a stage, 500-seat auditorium, workshop facilities and offices of the Drama Department together with a gymnasium used for recreational and other campus activities.

• **Corthell Hall (1878)** — The College Administration Building is named for the first President, Dr. William Corthell. Contains administrative offices, information desk, bookstore, student lounge, classrooms and offices of the Music and Education Departments. Also contains the Museum of Man and Culture, the most extensive anthropological collection in any New England state college or university.

• **Robie-Andrews Halls (1897-1916)** — A dormitory complex containing accommodations for 200 resident women students. Robie Hall is named for Frederick Robie of Gorham, an early benefactor of the College. Andrews Hall, named for Professor Emerita of Music Miriam Andrews, also contains classrooms and laboratories of the audio-visual education program.

• **Academy Building** — Housed the original Gorham Academy and presented to the State of Maine in 1895. Renovated in 1966 to contain studios, offices and classrooms of the Art Department.

• **Upton Hall (1960)** — Named for long-time faculty member Miss Ethelyn Upton. Contains lounges and dormitory accommodations for 150 resident women students. First floor houses the College dining facilities.

• **McLellan House** — Considered to be the oldest brick house in the State of Maine. Purchased and renovated by the College in 1966 and operated as an honor resident dormitory for 16 women students.

• **President's Residence (1906)** — Provides living accommodations for the President of the College and his family.

• **All Faith Chapel** — The former Gorham Town Hall, given in 1961 by the Robie family to the College for use as a student chapel.

• **Industrial Arts Center (1965)** — Contains offices, classrooms and laboratories of the Industrial Arts Department. One of the most advanced in the region, the Center has the latest facilities for graphic arts, electronics, power-transmission, wood and metals, and industrial crafts.





# Admission to the College

## Academic Standards

The College recommends the following subjects as minimum academic preparation for students seeking admission to Gorham State College.

College Preparatory English .....	4 units
College Preparatory Math .....	2 units
	beyond
	9th grade Algebra
Science .....	2 lab units
	beyond
	9th grade Science
Social Science .....	3 units
Foreign Language .....	2 units
	(one language)

All applicants are required to submit scores from the Scholastic Aptitude Test of the College Board Examinations. Test scores from comparable examinations such as the American Testing Program will be considered.

## Other Standards for Admission

Good physical and mental health — as evidenced by a medical examiner's report. (This report will be requested by the Director of Admissions after other credentials have received tentative approval.)

Aptitude and character — as evidenced by the recommendation of the high school principal or guidance counselor and by a transcript of the applicant's high school record.

## Interview

Interviews are required of all students accepted for admission to the College. In the areas of Industrial Arts, Music and Art Education the interview is handled by the particular department. All other candidates are interviewed by the Director of Admissions.

## Additional Requirements for Admission to Areas of Specialization

### Art

Each applicant for admission to the Art Education Program must present a portfolio of his art work to staff members of the Art Department at the time of the personal interview.

### Industrial Arts

Applicants for the Industrial Arts Education Program are required to take special aptitude tests at the College, and should have had a minimum of one unit in either Industrial Arts or Mechanical Drawing in high school.

### Music

All candidates for the Music Education Program will be asked to appear before the faculty of the Music Department for an instrumental or vocal audition. Written music aptitude and achievement tests will also be administered.

## Admission to Advanced Standing

Students who have had a full year or more of study at the college level in any of the State Colleges in Maine may be admitted to advanced standing at Gorham State College with full credit for work satisfactorily completed. Credit for work in accredited junior colleges, liberal arts colleges, technical schools, universities and summer sessions is granted when the work is successfully completed and corresponds to the program the applicant is seeking.

## ADMISSION

Applicants for admission to advanced standing must request that official transcripts be sent to the Director of Admissions from the college attended. Student copies are not acceptable.

Students seeking advanced standing must also submit high school transcripts, Scholastic Aptitude Test scores, and character evaluations from the Dean of Men or Women of the college(s) they are transferring from.

### ADMISSION PROCEDURES

The student who is interested in applying for admission to the College should follow the steps outlined below.

1. Obtain a copy of the College brochure and the necessary application forms from the Director of Admissions of the College or from the high school principal or guidance counselor.

2. Discuss the advisability of attending Gorham State College with parents, the principal or guidance counselor. Be sure to make a realistic comparison of present achievements and aptitudes with those required for success at Gorham.

3. Select the program which promises fulfillment of personal ideals, interests and abilities. Be ready to take specific entrance examinations upon request by the College.

4. Follow the directions on the application form.

5. Mail the \$5.00 registration fee and application form to the Director of Admissions.

6. The high school will send a transcript of work completed along with recommendation and teacher evaluation.

7. Submit scores from the Scholastic Aptitude Test of the College Board Examinations or scores from comparable examinations. Consult the high school principal or guidance counselor for further details.

Personality, character, vision, speech, hearing, physical and mental health are basic considerations in admitting an applicant to the College. The Committee on Admissions reserves the right to refuse admission to any candidate who is not fully qualified to meet college standards of personal fitness, scholarship, and moral conduct.

After the Admissions Committee has examined and evaluated the student's records and recommendations, the Director of Admissions will notify the applicant of the Committee's decision.

Upon final acceptance, the student will be required to make appropriate deposits. A deposit of \$30.00, which will be credited to his account, is required of each residence hall applicant. An additional fee of \$25.00 for advanced tuition is also required. Checks should be made payable to Gorham State College and mailed to Mrs. Electa M. Brown, College Bursar.

Admission is not final until the student has satisfactorily completed all high school and Admissions Office requirements.

### FINANCIAL AID

Students seeking admission to Gorham State College who anticipate requesting financial aid must apply through the College Scholarship Service Program, Box 176, Princeton, New Jersey, 08540. The Parent's Confidential Statement may be secured through the local high school guidance office.

Married students applying for financial assistance must fill out the College Scholarship Service forms and return them directly to the College.



## Annual Expenses

<b>TUITION:</b>	
Maine Resident .....	\$100.00
Non-Maine Resident .....	\$200.00
<b>ROOM:</b>	
Dormitory Resident .....	\$282.00
<b>BOARD:</b>	
For all meals served in dormitory .....	\$426.00
<b>STUDENT ACTIVITY FEE:</b> .....	\$ 25.00
<b>REGISTRATION FEE:</b> (must accompany application) .....	\$ 5.00
<b>MEDICAL INSURANCE:</b> (optional) .....	\$ 20.50
<b>INFIRMARY FEE:</b> .....	\$ 5.00
<b>BOOKS:</b> (estimated) .....	\$100.00
<b>COURSE FEES:</b>	
Art Education Majors	
Freshmen, Sophomores, Juniors .....	\$ 30.00
Seniors .....	\$ 10.00
Industrial Arts Education Majors	
Freshmen, Sophomores, Juniors .....	\$ 30.00
Seniors .....	\$ 10.00
Music Education Majors (Includes cost of private lessons) .....	\$195.00
All other students .....	\$ 10.00

SCHEDULE OF PAYMENTS

Residence Hall students currently enrolled must make a combined tuition and room deposit of \$55.00 on or before April 15. This deposit is to be applied to the first semester payment.

Commuting students currently enrolled must make a tuition deposit of \$25.00 on or before April 15. This deposit is applied to the first semester payment.

The balance due on tuition, board and room for the first half-year, plus all other fees for the full year, must be paid by August 15. The payment for the second half year must be made at a designated time before registration for the second semester.

Checks should be made payable to Gorham State College and directed to Mrs. Electa M. Brown, College Bursar.

Exceptions to the above schedule can be made only upon written request to the Bursar and upon approval by the Administrative Assistant of the College.

REFUND POLICY

No refunds of advance payments will be made unless these are requested prior to July 1. Refunds of other charges are made only when the student notifies the Bursar, in writing, of his official withdrawal from the College.

Non-refundable fees: Application or registration fee of \$5.00.

Non-refundable after registration: Student Fees, Course Fees and Room Rent.

Insurance: Prorated and refund made to student.

Tuition and board: No refund after six weeks.

Two weeks or less in attendance .....	80%
Two to three weeks .....	60%
Three to four weeks .....	40%
Four to six weeks .....	20%



# Student Life and Services

## FINANCIAL ASSISTANCE

Gorham State College offers various forms of financial assistance to students who show a definite financial need in completing their education.

Meeting the financial obligations of a college education is the prime responsibility of the student and his parents. Where a need for aid is shown the college may assist with loans, scholarships, or part-time work opportunities.

It is quite important that parents and students sit down to work out a financial framework for the period of time the student will be in college.

### Who May Apply

Any full time student matriculated for a degree or any candidate applying for admission to the college.

### How To Apply

All applicants must file a Parent's Confidential Statement through the College Scholarship Service of Princeton, New Jersey. (Applications are available at the College Admissions Office or at the local high school guidance office.) Married students must complete those sections of the College Scholarship Service forms which are applicable to them and not to the parents and submit the completed material to the Business Office of the college.

### When To Apply

Students applying for admission to the college must submit the College Scholarship Service forms at the time they are applying to the college.

Students currently enrolled at the college who are required to submit College Scholarship Service forms must apply before October 15 if they are to be considered for the spring semester (if funds are available) and before April 1 for the fall semester.

### Conditions For Awards

#### 1. Financial Need

Students are granted financial assistance based on definite need as indicated by the Parent's Confidential Statement and an evaluation made by the Financial Aid Committee.

#### 2. Academic and Social Standing

Students on academic or disciplinary probation will not be considered for any form of financial assistance and funds may be withdrawn if a student is placed on academic or disciplinary probation.

### Sources of Financial Assistance

#### 1. State of Maine Scholarship Grants

Scholarships in the amounts of \$100 and \$200 are granted annually to approximately 200 students who are in good academic standing and show strong academic promise. Scholarship grants are applied to spring semester bills after the academic status of the student has been determined.

#### 2. National Defense Student Loans

Gorham State College participates in the National Defense Student Loan Program whereby students may borrow funds from the government with deferred payments until after completion of their degree work. Loans average approximately \$300 for an academic year and may be applied to a student's bill for the fall and spring semester.



### 3. Student Aid Funds, Inc.

Gorham State College is a participating member in the Student Aid Funds, Inc. Program. Under the arrangements of this program students may borrow money directly from participating local banks with payments and interest deferred until the completion of their degree program. Under the arrangements of this program students may borrow up to \$1,000 annually as an undergraduate and up to \$1,500 annually as a graduate student for a total not to exceed \$7,500. Applications for this loan are to be secured directly from the participating bank.

### 4. Work Opportunities

Funds are available whereby students may be employed to help defray college expenses. Under the arrangements of some programs monies earned are applied directly to college bills with no funds going to the student and some jobs will pay money directly to the student. Jobs vary from library assistant, college dining service, secretarial, lab assistants to limited janitorial services. Job opportunities are also available in the town of Gorham for students to work part-time.

### 5. Scholarships

Oftentimes students bring with them to the college scholarships which are granted by local organizations such as P.T.A., A.A.U.W., and others to aid in defraying their expenses. Scholarship grants vary from \$50 to \$200 annually. Students must assume the responsibility of notifying the College Bursar of any scholarship awards which will aid in defraying college expenses. Gorham State College each spring recognizes outstanding upperclass students at a Recognition Day Convocation with scholarships established by students and families interested in the future of the college.

Recipients of scholarships awarded at the College Recognition Day program are selected by the Financial Aid Committee in accordance with the qualifications as established by the donors of these scholarships. These awards are made on the basis of academic excellence and outstanding campus leadership.

#### Scholarships Awarded

##### • Class of 1950 \$100.00

Given in memory of Barbara Payne. Presented to a junior in the kindergarten-primary program and based on need, record of service, character, and potential success as a teacher.

##### • Class of 1953 \$100.00

Given in memory of Rita P. Jewett. Based on need and average in scholarship.

##### • Class of 1955 \$ 50.00

Given in memory of Barbara Silver.

##### • Class of 1961 \$ 50.00

Given in memory of Donald Semmes. Awarded by members of Phi Sigma Pi Fraternity to a junior man who reflects ideals of fraternity, scholarship, service and friendship.

##### • Class of 1963 \$ 50.00

Given in memory of Nancy Chandler. Presented to a junior and based on need, character, participation, and scholarship.

##### • Walter E. Russell \$100.00

Presented by the Alumni Association.

##### • Alumni, Southern Branch \$100.00

##### • Alumni, Portland Branch \$100.00

Awarded to a student from the Greater Portland Area.

- **Charles F. Martin** **\$50.00 or \$100.00**  
Given in memory of Charles F. Martin.
- **Gertrude L. Stone** **\$100.00**  
Presented to a deserving student in memory of Gertrude L. Stone.
- **Frances Howarth** **\$100.00**  
Presented to a deserving girl studying to be a teacher.
- **Frank F. Brown** **\$100.00**  
Presented to a music student in memory of Frank F. Brown.
- **State P.T.A.** **\$200.00**
- **Hervey Hanscom** **\$100.00**  
Awarded to a student from the Town of Lebanon, Maine.
- **Bailey-Jenkins** **\$ 50.00**  
Given by Richard Jenkins in memory of his parents and Honoring Dr. Bailey.
- **Richard Goodridge**  
\$50.00 is presented to a member of the three upper classes who is a graduate of Camden High School, Camden, Maine.  
\$50.00 is presented to a member of the three upper classes who is a graduate of Stephens High School, Rumford, Maine.
- **George P. Davenport Loan Fund**  
To be used for making small loans to deserving students who are residents of the State of Maine, preferably graduates of Morse High School, Bath, Maine, who are temporarily in need of money to pay expenses of their education. Small interest charge.

### STUDENT HEALTH SERVICES

To provide adequate student health services, the college maintains an infirmary with two full-time registered nurses who are available for consultation, first aid, and temporary emergency care. Two local physicians are available by appointment, and immunization clinics are conducted periodically.

Health and accident insurance, which is available for all students at a nominal fee, covers a portion of hospitalization, surgery, medication, and care by a physician.

Formal instruction in areas of health and physical education is an integral part of the college health program.

### STUDENT HOUSING

The college provides living accommodations for men and women students. Woodward Hall houses 96 men and Woodward Hall Extension, 106. Robie-Andrews Halls house 200 women and Upton Hall, 150. The McLellan House has accommodations for 16 women. The college cafeteria is located at Upton Hall for all resident students.

College regulations require that all women students live in the residence halls unless they live at home or in the home of close adult relatives. To the extent that space is available, all men students in the upper classes are also expected to reside on campus.

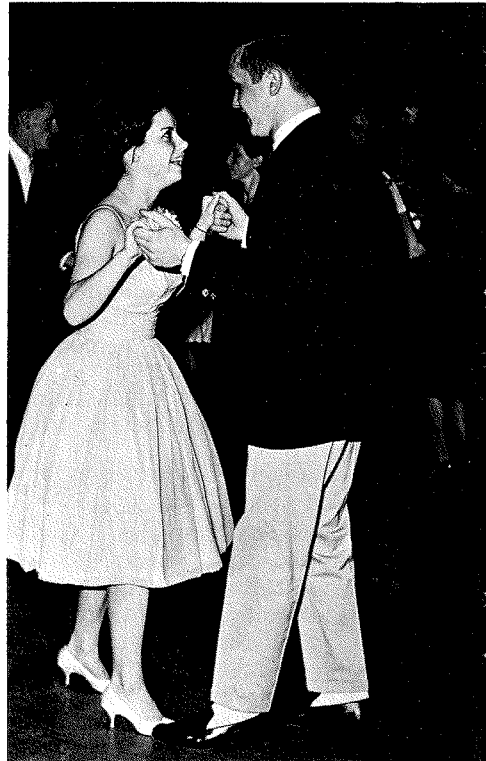
Those who cannot be so accommodated will be assisted by the Dean of Men in finding rooms in approved homes in Gorham. They may either contract for all their meals at the college cafeteria or make their own arrangements off campus. The standard college rate will apply to those who choose to eat at the college.

## STUDENT LIFE

The student at Gorham State College is considered an active member of the campus community. As such he or she is encouraged to take an interest in campus life and development.

The college sponsors a number of educational, cultural and social activities including a Concert-Lecture Series, a Film Series, Homecoming, Mayoralty Campaign, Visitation Day, Winter Carnival, Miss Gorham State Pageant, Recognition Day, Green and White Way, convocations, seminars, and special programs.

Students participate with faculty in the establishment of policy through membership on committees such as Concert-Lecture, Convocation, Development Council, Publications, Athletic, Student Exchange, Traffic and Parking, Recognition and Visitation Days and Commencement.



## CAMPUS ORGANIZATIONS

A student will find numerous extra-curricular opportunities on campus vital to his development as a person, citizen, and prospective teacher. Campus organizations provide a variety of activities — social, athletic, musical, artistic, intellectual, and religious.

### Student Senate

The Student Senate regulates and governs all student activities on the campus. Primarily administrative in function, the Senate allocates and distributes student fees to various campus organizations and devises the campus wide social calendar.

The Student Senate represents the official voice of the student body. It aids in planning campus development, serves as a community link between students and faculty, and lends support for the improvement of all student functions.

### Music Organizations

**MUSIC EDUCATOR'S NATIONAL CONFERENCE** — The Music Educator's National Conference, a professional organization open to all students on campus, aims to present practical programs dealing with music education. In the spring it presents a concert of young musicians from public school music organizations.

**A CAPPELLA CHOIR** — The A Cappella Choir is a select vocal ensemble specializing in chamber music of all periods, from Renaissance to Contemporary. The A Cappella Choir performs at convocations, concerts, and other college functions.

**BRASS ENSEMBLE** — Brass Ensemble is a select group of advanced players, chosen from the college band, who specialize in the performance of brass chamber music. The group appears publicly several times a year at college concerts and community functions.

**CONCERT BAND** — The Concert Band is composed of students from all departments of the college who desire to develop their musical talents and skills by participating in a wind band. The band presents a number of public concerts each year.

**GORHAM CHAMBER ORCHESTRA** — The Gorham Chamber Orchestra provides an opportunity for both day and evening college students to develop their musical talents and skills by participating in a Little Symphony orchestra. The group meets one evening each week for a two-hour rehearsal.

**GORHAM CHORALE** — The Men's and Women's Glee Clubs are made up of over one hundred carefully screened members. The Chorale makes several public appearances during the college year.

**MEN'S GLEE CLUB** — The Men's Glee Club performs works, both traditional and modern, which are especially suited to male voices. Occasionally it joins the Women's Glee Club in campus concerts, television shows, and guest appearances.

**WOMEN'S GLEE CLUB** — Membership is open to all interested women. The group performs representative works for women's voices and combines with the Men's Glee Club to present choral works of greater scope. Several public concerts are given during the year.

### Student Publications

**HILLCREST** — The Hillcrest, the annual college yearbook, is edited by members of the junior class. The staff is distinguished by editorial and administrative skill, originality, and initiative. It handles a variety of assignments: editing, layout, advertising, business management, art, and photography.

**THE OBSERVER** — The college newspaper is staffed and published by students interested in all aspects of journalism. The Observer serves as an outlet for journalistic talents through a variety of news resources: editing, reporting, feature articles, art work and photography.

### Religious Groups

**STUDENT CHRISTIAN ASSOCIATION** — The Student Christian Association, an interdenominational organization on campus, provides spiritual guidance and fellowship. The organization provides a variety of programs including films, speakers, discussions, debates, and projects.

**NEWMAN CLUB** — The Newman Club, a national collegiate religious organization, enables the student to share more intelligently and spiritually in Christian worship and to increase his knowledge of the role of Catholicism in today's world. The Club participates in religious, intellectual, and social activities.

## ORGANIZATIONS

### The Arts

**ART WORKSHOP** — The Workshop provides an outlet and an opportunity for its members for creating art objects in various media.

**DRAMA CLUB** — Affiliated with the American National Theatre and Academy, the Drama Club is the producing organization for the College Theatre. Membership, which is open to all students on the basis of interest alone, provides opportunities for training and experience in every phase of theatrical work from performing to management, stagecraft, lighting, makeup, and design.

**MODERN DANCE CLUB** — Open to a limited number of students who seek training in the technique of modern dance, the Modern Dance Club provides an opportunity for work in choreography and experience in program planning.

### Fraternal and Professional Organizations

#### MEN'S FRATERNITIES:

**Phi Sigma Pi** is a national, professional (education) fraternity dedicated to the objectives of professional ethics and good fellowship among teachers. The organization sponsors various student and community service projects.

**Alpha Beta Lambda** is a non-national "social" fraternity designed to provide college men with healthy social experiences. The organization sponsors a variety of activities for the total college community. Alpha Beta Lambda is seeking national affiliation.

**Kappa Delta Phi** is a national, professional (education) and "social" fraternity. The organization sponsors a variety of activities for the total college community.

**Sigma Kappa Phi** is a non-national "social" fraternity organized to provide college men with a healthy and purposeful fraternal experience. Sigma Kappa Phi is seeking national affiliation.

**AMICITIA CLUB** — Amicitia Club is a woman's service organization which has members from the sophomore, junior, and senior classes. The organization provides a friendly and constructive program of community aid.

**STUDENT EDUCATION ASSOCIATION** — The Student Education Association is an affiliated group concerned with the changing problems and responsibilities of American education. As a member of the Maine Teachers Association and the National Education Association, the S.E.A. supports their codes of ethics, their policies and programs, offers informal coffees for student teachers, and sponsors speakers on foreign education.

**INDUSTRIAL ARTS PROFESSIONAL ORGANIZATION** — Open to all industrial arts students and faculty, the IAPO brings community professional programs to the college, encourages the exchange of ideas and the discussion of problems, and promotes further professional development through either membership or participation in state, regional, and national industrial arts associations.

**INDUSTRIAL ARTS DEVELOPMENT COUNCIL** — This council seeks to foster a better understanding and closer relationship between the Industrial Arts and other departments of the college. The council consists of two faculty members and two representatives from each class.

**EPSILON PI TAU** — Epsilon Pi Tau is a fraternity which provides special recognition for high schoolastic honors in Industrial Arts.

### Special Interest Groups

**CHESS CLUB** — The Chess Club was organized by chess enthusiasts to provide ready competition for the confined players in the community, to help teach novices, and to insure campus-wide improvement in a fascinating and relaxing pastime.

**COMMUTER CLUB** — The Commuter Club provides continuous communication and close relationships between resident students and those who commute. The club sponsors several activities during the school year for the college community.

**DEBATING CLUB** — This club is open to all students whose interests lie in research, discussions, and debating of a wide variety of topics.

**NORTH AMERICAN TRAVEL ASSOCIATION** — Students interested in personal and professional improvement through travel join in fund-raising activities to finance their annual trip to points of interest in the Eastern and Central states as well as Canada.

**OUTING CLUB** — The Outing Club serves to provide students with an opportunity for healthful enjoyment all through the college year. Some of its activities include overnight camping trips, skiing excursions, and hiking.

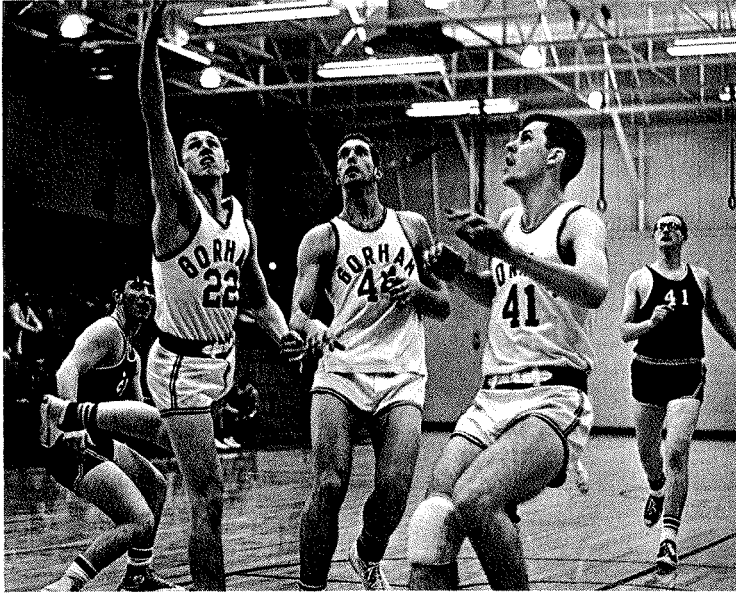


## ORGANIZATIONS/ATHLETICS

**PUBLIC AFFAIRS CLUB** — The Public Affairs Club sponsors activities for students interested in contemporary social and political issues. The club sponsors assembly programs, visiting international scholars, teacher workshops, and student participation in conferences at other colleges.

**VARSITY "G" CLUB** — A service organization made up of men earning letters in varsity sports competition, the Varsity "G" Club assumes responsibility for sponsoring special athletic events and assists in the college intramural program.

**WOMEN'S ATHLETIC ASSOCIATION** — Stressing student leadership and college-wide participation in sports, the WAA sponsors such sports as softball, basketball, volleyball, tennis, trampoline, archery, and fencing.



### Intercollegiate Athletics

Intercollegiate athletics, an integral part of the physical education program, provide special opportunities for development of physical skills and encourage leadership and sportsmanship among outstanding athletes.

As one of the members of the New England State College Athletic Conference, the College competes successfully in varsity cross-country, soccer, basketball, track, baseball, tennis, and golf.

As a member of the National Association of Intercollegiate Athletics (District 32), the College has participated in district play-offs in soccer and basketball.

The Warren Hill Gymnasium is one of the best designed and adequately equipped sports facilities in the area.

Gorham State is an applicant for membership in the Eastern College Athletic Conference and the National Collegiate Athletic Association.

### Men's Intramural Athletics

The Physical Education Department conducts an intramural program for men students emphasizing voluntary participation in a variety of team and individual sports during free time. Activities include tennis, golf, touch football, volleyball, basketball, softball, and table tennis.

### Placement of Graduates

The responsibility of Gorham State College for assisting its graduates in securing positions is recognized and accepted by the Placement Office. The aim of this service is twofold: to help each graduate secure the position for which he is best qualified by training, experience, and personality; and to assist school officials in finding qualified teachers who will meet the needs of their systems.

The Director of Placement keeps complete files of candidates showing their scholastic record, qualifications for teaching, and personal characteristics.

The Office informs students concerning location of positions, grade levels, and salaries; arranges personal interviews between school officials and candidates for positions.

The Director plans visitations for seniors, before contracts are signed, to the schools in which they show professional interest; and guides prospective teachers in preparing credentials, participating in placement interviews, and evaluating the desirability of various teaching situations.

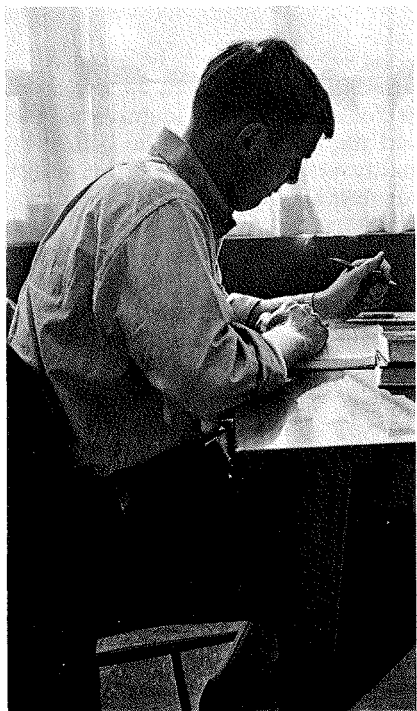
An analysis of first-year graduate positions by teaching level, salary, and geographic distribution is published every fall and is available at the Placement Office.

### The Alumni Association

The Alumni of Gorham State College, numbering over 6,000, are conspicuously active in the development of the College. The Association holds an annual meeting and banquet on campus during the summer. Among its many functions is the publication of a directory as well as a magazine, the "Alumni News."

Various branches of the Alumni Association encourage promising young men and women to become teachers by awarding annual scholarships. Thus the Association performs a vital service for the teaching profession at the same time that it gives the College its loyal support in the continuing improvement of services and facilities.





## The Academic Policies

### The Advisory Program

An orientation program is provided for new students at the beginning of the fall term. It includes placement tests, social events, discussion groups, and tours. The program gives the new student an opportunity to meet faculty members, faculty advisers and upper class student advisers, to learn more about college services, and to complete registration.

Every student is assigned an adviser whose primary function is to assist the student in the selection of courses. Normally the adviser is from the department in which the student will major. In cases where this is impossible the student may be reassigned at the end of the sophomore year.

The adviser is available for scholastic or personal consultation at his own or at the student's request. In addition the student is encouraged to meet with an individual faculty member, the Dean of Academic Affairs, the Assistant to the Dean, and the Deans of Men and Women when they can be of assistance.

### Attendance Regulations

It is assumed that the satisfactory performance of academic duties requires regular and punctual class attendance. A student in good academic standing is permitted, each semester, one absence per credit-hour. Unless he officially withdraws by securing a permit from the Dean of Academic Affairs, he is expected to complete the course in question. Mere non-attendance does not constitute official withdrawal.

## ACADEMIC POLICIES

### The Grading System

A letter system of reporting final grades is used. *A, B, C, D, F, Inc.* and *W* represent the levels of achievement. The basis for determining a grade is the relative extent to which the student has achieved the objectives of the course.

The grade *A* symbolizes work of superior quality achieved only by the ablest students. *B* rank indicates work of a quality substantially better than the minimum requirements. *C* represents work of a satisfactory but average quality.

The *D* implies a less than satisfactory quality but is acceptable for credit except in transfer. *F* is a failing grade and indicates work of such an unsatisfactory quality that no credit is given.

*Inc.* indicates that the student has failed to complete specific course requirements. *W* represents withdrawal from a course.

### Course Credits

Since a minimum of 128 credit hours is required for graduation, thirty-two should be earned each year. To progress satisfactorily through college a student is expected to carry sixteen credit hours each semester. Permission must be obtained from the adviser if a student wishes to carry less or more than the required sixteen hours.

A course rated *F* does not carry credit and must, unless it is a free elective, be repeated and passed; if it is a free elective course, another elective may be approved in its place by the faculty adviser.

An *Inc.* mark must be satisfactorily removed within two weeks of the close of the term in which the grade was given. It is the student's responsibility to remove the *Inc.* rank by consulting his instructor; otherwise the *Inc.* will be changed to an *F* by the Registrar.

A scholastic warning is prepared by the instructor for students whose academic performance is below average at mid-semester. The Dean of Academic Affairs will notify each student, his parents, and his adviser of the instructor's warning. The report is designed to help the student analyze his deficiencies by conferring with his instructor and his adviser.

### Class Status

Class status is determined by the number of acceptable credit hours the student has earned toward the degree. For freshmen status students will have earned up to 25 credit hours; for sophomores, 26 to 58; for juniors, 59 to 90; and for seniors, 91 to 128 credit hours.

The single exception to the above scale exists when a student transfers from another institution, or from another curriculum within our own college, with an accumulation of credit hours acceptable as elective credits.

### Teaching Certificate

No teaching certificate will be issued to graduating seniors except upon the recommendation of the college faculty.

### Grade-Point Averages

The academic standing of each student is computed by the Registrar at the end of every semester. The following table represents the rating scale:

- A — 4 quality-points
- B — 3 quality-points
- C — 2 quality-points
- D — 1 quality point
- F — 0 quality-point

## ACADEMIC POLICIES

In order to be eligible for the degree of Bachelor of Science, a student must have earned a minimum cumulative quality-point average of 2.00. Semester cumulative minima are as follows:

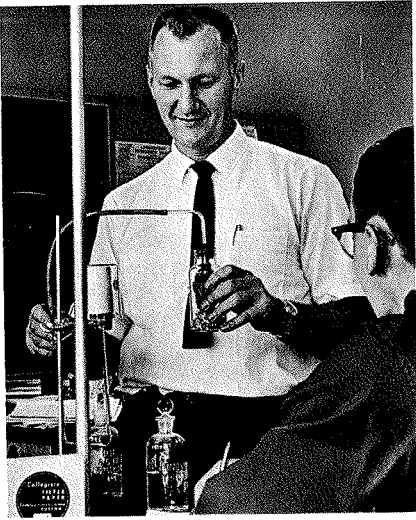
	Cumulative Minimum for good standing	Cumulative Minimum for probationary standing
Freshmen, end of first semester	1.35	1.15
Freshmen, end of second semester	1.60	1.35
Sophomores, end of first semester	1.80	1.60
Sophomores, end of second semester	2.00	1.80
Juniors and Seniors, end of each semester	2.00	1.80

A student who fails to obtain the minimum for probationary standing for his class is dismissed from the college. Students whose cumulative grade-point averages fall below the minimum required for continuation in good standing and above the dismissal point are placed on academic probation the following semester. Failure to improve academically and inability to meet the minimum for good standing result in automatic dismissal from the college.

Any student whose semester average falls below 1.0 is automatically dismissed for at least one semester.







## The Graduate School

Gorham State College has offered a graduate program since the summer of 1964. The graduate school is designed to meet the following objectives: (1) a fresh intellectual challenge; (2) an extended depth in scholarship; (3) a familiarity with current research methods and findings; (4) an enhanced professional competence.

### PROGRAMS

The following general categories of graduate interest are recognized:

1. Candidates for the degree of Master of Science in Education at Gorham State College.
2. Those who wish to pursue thirty hours of approved study beyond the bachelor's degree.
3. Those who seek renewal of certificates.
4. Those who seek credit for transfer to other institutions.

The graduate degree to be awarded is the Master of Science in Education. It may be attained, through either a thesis or non-thesis program, by completion of 33 credits, as follows:

#### Thesis Program

- 18 credit hours in general education courses (liberal arts — English, Mathematics, Psychology, Science and Social Science)
- 9 credit hours in professional education courses
- 3 credit hours for the completion of an approved thesis
- 3 credit-hour course in thesis preparation

#### Non-thesis Program

- 18 credit hours in general education courses (liberal arts — English, Mathematics, Psychology, Science and Social Science)
- 6 credit hours in professional education courses
- 3 credit hours in a research seminar in professional education sometime during last 12 hours of work
- 6 credit hours in courses to be selected by the student
- Comprehensive examinations

## **ADMISSION TO THE GRADUATE SCHOOL**

Admission is selective in nature. The applicant will be judged on the basis of previous academic record and potentiality for graduate work.

### **Admission to Graduate Study**

Application for admission to the Graduate Division should be made to the Dean of Graduate Study. Candidates must submit transcripts of all undergraduate and graduate study, scores on the Miller Analogies Test, or the Graduate Record Examination, and three references. Upon admission to graduate study candidates will be assigned a major advisor. Within six months the candidate and his major advisor will submit a planned sequence of courses to the Dean of Graduate Studies.

### **Admission to Graduate Status**

After completion of six hours of graduate study, and with the approval of the major advisor, the candidate may apply to the Dean of Graduate Studies for admission to graduate status.

### **Admission to Degree Candidacy**

After successful completion of fifteen hours of graduate study, the candidate may apply for admission to degree candidacy.

### **Residence**

All students enrolled either full or part-time are required to attend a minimum of two sessions at Gorham State College.

### **Course Load Limitations**

No student may carry more than six semester credit hours of part-time study in a regular academic semester or in any six-week summer session.

### **Time Limitations**

Students must fulfill all requirements for the graduate degree within eight years of the date of completion of their first graduate course, including transfer work.

### **Teaching Experience**

Candidates with less than a 2.5 cumulative undergraduate record must complete one year of successful teaching before being considered for admission. They may be required to complete six additional hours of undergraduate work with "B" grades or better.

### **Transfer Credits**

Until July 1, 1967 graduate students may transfer a maximum of 12 semester credit hours into the Gorham graduate program. After this date, students may transfer a maximum of 6 semester credit hours.

### **Minimum Grade Requirements**

For successful completion of the degree program, a student shall be required to obtain a "B" average for all courses. No grade below "C" in any course is acceptable.

### **Comprehensive Examinations**

Comprehensive Examinations required of the non-thesis candidates shall be prescribed and administered by the Graduate Study Council.

### The Evening College

The College conducts an Evening Division Program which serves the needs of students for higher education courses at the freshman and sophomore levels as well as adult extension courses of interest to the general community.

A person who has a high school education or its equivalent and who believes that he can pursue college work with profit is admitted to any evening courses for which there are no prerequisites.

The Evening College is designed to meet the needs of the following:

Recent high school graduates unable to attend day college because of limited enrollment quotas or for financial reasons.

Adults unable to attend college during day hours who wish to earn college credits.

Teachers in-service wishing to earn credits toward an undergraduate degree.

Adults interested in self-improvement but not concerned with a degree.

Enrollment in the Evening College is not in itself the equivalent of matriculation for a degree. Neither is enrollment an assurance of admission to day-college courses. Qualified Evening College students do, however, have priority in admission; if space can be found, they will be accommodated. To date, all qualified Evening College students who have applied have been accepted in the regular day-sessions, some after one semester in the Evening College, others not until the end of their fourth semester.

Course content, instructional levels, and grading standards in the Evening College are intended to be identical with those in the degree-program. Accordingly, credits earned in the Evening College may be submitted, upon the student's matriculation, toward a degree at this college or at another institution of his choice. Courses offered, each of which carries three semester-hours of credit are listed herewith:

Eng 100e - 101e    Sci 200e - 201e

Math 100e - 101e    SS 200e - 201e

Sci 100e - 101e    SS 202e - 203e

SS 100e - 101e    FA 100e - FA 101e

Eng 200e

Eng 210e

Psy 200e - 300e    See catalog for detailed course descriptions.

Ed 100e

### Undergraduate Summer Session

Gorham State College holds an annual Summer Session for nine weeks. It presents a balanced program of liberal arts and professional courses designed to meet the needs of undergraduates who are accelerating their program or removing deficiencies, high school graduates interested in academic enrichment and teachers seeking certification or renewal of same.



# The Academic Program

All curricula and programs at Gorham State College require four years for completion. Upon graduation, the student receives the Bachelor of Science degree and the proper teaching certificate. The College prepares teachers in the following course programs:

## **Kindergarten-Primary**

The Kindergarten-Primary curriculum qualifies students to teach in the kindergarten through grade six, with emphasis on kindergarten through grade three.

## **General Elementary**

The General Elementary curriculum qualifies graduates to teach grades one through eight, with emphasis on grades four through six.

## **Junior High**

The Junior High curriculum qualifies students for teaching in a self-contained classroom in the upper elementary grades, or for departmental work in Junior High School. Special preparation is offered for positions in the fields of English, Mathematics, Science, and Social Sciences.

## **Secondary (7-12)**

The Secondary curriculum qualifies graduates to teach grades seven through twelve in the fields of Biological Science, Science Area, English, History, Social Science Area, and Mathematics.

## **Art**

The Art curriculum is the only approved program in state colleges in Maine for the preparation of art teachers and supervisors. Graduates of this program qualify to teach or supervise art in all grades of the public schools.

## **Industrial Arts**

The Industrial Arts curriculum prepares teachers for the teaching of industrial arts in elementary and secondary schools. It is the only college program in the State of Maine in this specialized field.

## **Music**

The Music curriculum qualifies graduates to teach or supervise vocal and instrumental music in all grades. It, too, is the only program of its kind in the state colleges.

In addition to the regular curriculum all music majors will meet the following requirements:

1. Participation in at least two recitals a year, and presentation of solo recital in junior and senior year.
2. Fulfillment of minimum requirements in both voice and piano, regardless of major instrument.
3. Participation in at least two musical organizations without credit.

# Core Requirements

## General Education

Every student at the College is required to complete a minimum of 42 credit hours in general education, as follows:

	Credit Hours	Credit Hours
College Health		2
English		9
English Composition	(6)	
American Literature	(3)	
History and Appreciation of Art		3
History and Appreciation of Music		3
Mathematics (assigned)		3
Elements of Mathematics	(3)	
or		
Analytic Geometry and Calculus (math majors)	(4)	
Physical Education	(Two years)	2*
Psychology		3
Science		6
Biological Science	4 (3)	
Physical Science	(3)	
Social Science		9
U.S. History (either half)	(3)	
Modern Civilization	(3)	
Principles of Geography	(3)	
Sociology or Economics	(3)	
(Choice of any three)		
Speech		2
		<hr/> 42

## Professional Education

Every student at the College except those in Secondary Education is required to complete a minimum of 26 credit hours in professional education as follows:

	Credit Hours
American School	2
Human Growth and Development	3
Philosophy of Education	3
Curriculum Methods and Materials	6
Student Teaching	12
	<hr/> 26

In both general and professional education there are additional or special requirements which will be indicated in each curriculum as it is set forth.



# Curriculum for Kindergarten-Primary Education Majors

## General Education

All kindergarten-primary education majors are required to complete the basic forty-two credit hours in general education. The additional general education requirements are:

	Credit Hours
Social Science	6
Mathematics	3
Science	6
Biological Science <del>3</del> <sup>4</sup> hours	
Physical Science 3 hours	
Fundamentals of Art	2
Fundamentals of Music	2
Children's Literature	2
	<hr/> 21

## Professional Education

All kindergarten-primary education majors complete the basic twenty-six hours plus nine additional credit hours. The complete professional program is as follows:

	Credit Hours
Ed 100 The American School	2
Psy 300 Human Growth and Development	3
Ed 300 Primary Curriculum Methods and Materials	3
Ed 303 Primary Reading	3
Ed 305 Primary Arithmetic	3
Ed 308 Science and Health for the Primary School Teacher	2
Ed 401 Philosophy of Education	3
Ed 402 Student Teaching	12
Ed 403 Seminar in Primary Education	2
Ed 411 Measurement and Evaluation	2
	<hr/> 35



# Curriculum for Elementary Education Majors

## General Education

All elementary education majors are required to complete the basic forty-two credit hours in general education. Their additional requirements, the same as those for the kindergarten-primary curriculum, are twenty-one credit hours.

## Professional Education

All elementary education majors complete the basic twenty-six credit hours plus an additional nine credit hours. The full professional program follows:

			Credit Hours
Ed	100	The American School	2
Psy	300	Human Growth and Development	3
Ed	302	Elementary Curriculum Methods and Materials	3
Ed	304	Elementary Reading	3
Ed	306	Elementary Arithmetic	3
Ed	310	Science and Health for the Elementary Teacher	2
Ed	401	Philosophy of Education	3
Ed	402	Student Teaching	12
Ed	404	Seminar in Elementary Education	2
Ed	411	Measurement and Evaluation	2
			<hr/>
			35

The basic curriculum course (Ed 302) provides the overall framework within which the specific courses offer instruction as to plans and unit work. Ed 302, 304, 306 and 310 are carefully planned to prevent undesirable duplication.

All students in the kindergarten-primary or elementary curricula are considered as education majors. In addition to the general and professional requirements they are required to complete two academic minors of eighteen credit hours each, or a major of thirty credit hours. General education requirements may be counted toward the major or the two minors.

# Curriculum for Junior High Education

Most students will find either the Elementary Education Curriculum (K-8) or the Secondary Education Curriculum adequate for their needs. However, those who wish to be certified exclusively in grades seven through nine may pursue the Junior High Curriculum.

The general education requirements are the basic forty-two credit hours plus fifteen hours (six in Science, six in Social Science and three in Mathematics). The professional education requirements are as follows:

			Credit Hours
Ed	100	➤ American School	2
Psy	300	➤ Human Growth and Development	3
Ed	307	➤ Junior High Reading	2
Ed	309	➤ Secondary School Curriculum (7-12)	3
Ed	401	➤ Philosophy of Education	3
Ed	402	Student Teaching	12
Ed	405	Seminar in Secondary Education (7-12)	2
Ed	411	Measurement and Evaluation	2
		Methods Course in Major	3
		➤ Methods Course in Minor	3
			<hr/> 35

Thirty hour subject matter majors are available in English, History, Mathematics, Biological Science, Earth Science and Physical Science. In addition there are Science area and Social Science area majors of forty hours. Specific requirements of these programs are available from the chairmen of the respective departments.

# Curriculum for Secondary Education

## General Education

Secondary Education majors must complete the basic general education requirements with exceptions which vary according to the specific programs which the students enter.

## Professional Education

The following 21 hours are required:

			Credit Hours
Psy	300	Human Growth and Development	3
Ed	309	Secondary School Curriculum	3
		Methods Course in Major	3
Ed	402	Student Teaching	12
			<hr/> 21

All students in the Secondary Education Curriculum are required to complete either a major of 36 credit hours and a minor of 18 credit hours or an area major of 50 credit hours.

Methods courses do not count toward specific hour requirements of majors and minors.

It is possible to major or minor in Biological Science, Science Area, English, Mathematics, History, and Social Science Area. The specific requirements are indicated on the following pages.



# Program for English Majors and Minors

## English Major, Secondary

### FRESHMAN YEAR

			Credit Hours
Eng	100-101	English Composition	6

### SOPHOMORE YEAR

Eng	200-201	English Literature I and II	6 ✓
Eng	210	American Literature	3
Eng	250	Speech	2 ✓

### JUNIOR AND SENIOR YEARS

Eng	352	Shakespeare	3
Eng	440	History of the English Language	3
Eng	351	Advanced Composition	
	or		
Eng	456	Creative Writing	2

The remainder of the 36 credit hours required to complete a major in English may be obtained from the following electives:

			Credit Hours
Eng	220	Introduction to Journalism	3
Eng	230	Oral Reading	3
Eng	240	Persuasion	3
Eng	360	World Literature I	3
Eng	361	World Literature II	3
Eng	365	Fundamentals of Acting	3
Eng	366	The Augustans	3
Eng	380	Introduction to Linguistics	3
Eng	450	Nature of Poetry	2
Eng	451	The Short Story	2
Eng	452	Dramatic Production	3
Eng	453	English Drama, 1580-1642	3
Eng	454	Contemporary Literature	3
Eng	455	The Novel	2
Eng	457	Modern Drama from Ibsen to Ionesco	3
Eng	460	Fitzgerald, Hemingway and Faulkner	3

Also required, but not counting toward the 36 hours: Eng Ed 354: Teaching English in the Secondary School, 3 credit hours (must be taken in the Junior Year).

## Secondary English Minor

Required: Eng 100-101, Eng 200-201, Eng 210, Eng 250, preferably two additional courses (Advanced Composition recommended).

## English Minor (Kindergarten-Primary, Elementary)

Any 18 hours of required and elective courses.

# Program for History Majors

## History Major, Secondary

### Required:

			Credit Hours
SS	100-101	Ancient and Modern Civilizations	6
SS	200-201	U.S. History	6
SS	499	Historiography	3
			<hr/>
			15
Six hours of non-American History courses			6

Also required but not included in the total credits for the major:

SS Ed	361	Teaching Social Studies in Grades 7-12	3
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### Electives:

A minimum of 15 credit hours from the following:

SS 301	Maine History	SS 367	Colon. Hist. U.S.
SS 354	Dip. Hist. U.S. I	SS 368	Sem. Amer. Charac.
SS 355	Dip. Hist. U.S. II	SS 375	Modern Africa
SS 356	History of Russia	SS 387	Fr. Rev. & Napol.
SS 357	History of the West	SS 388	Euro. & World in 18th Century
SS 363	20th Cent. U.S.	SS 392	20th Cent. Europe
SS 364	Civ. War & Reconstruct.	SS 400	Hist. England
SS 365	Soc. & Cult. Hist. U.S. to 1865	SS 460	Hist. Canada
SS 366	Soc. & Cult. Hist. U.S. since 1865		

# Program for Social Science Majors and Minors

## Social Science Area Major

### Required:

			Credit Hours
SS	100-101	Ancient and Modern Civilizations	6
SS	200-201	U.S. History	6
SS	202	Principles of Geography	3
SS	203	Sociology	3
SS	204	American Government	3
SS	300	Economics	3
SS	350	World Geography	3
			<hr/>
			27

Also required but not included in the total credits for the major:

SS Ed	361	Teaching Social Studies in Grades 7-12	3
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### Electives:

A minimum of 23 credit hours from all other departmental offerings.

### Secondary History Minor:

A minimum of 18 credit hours of required and elective courses. ✓

### Minors: Kindergarten-Primary, Elementary

A minimum of 18 credit hours of required and elective courses.

### Geography Minor:

A total of 18 credit hours of geography and geology courses.

# Program for Mathematics Majors and Minors

## Mathematics Major, Secondary

### FRESHMAN YEAR

			Credit Hours
Ms	150	Analytic Geometry and Calculus I (prerequisite: equivalent of Ms 120 and 121)	4
Ms	151	Analytic Geometry and Calculus II (prerequisite: Ms 150)	4
Ms	173	Logic and Sets	3
Ms	120	College Algebra	3
Ms	121	College Trigonometry	3

### SOPHOMORE YEAR

Ms	250	Analytic Geometry and Calculus III (prerequisite: Ms 151)	4
Ms	251	Calculus IV (prerequisite: Ms 250)	4
Ms	272	Real Numbers	3
Ms	260	Probability and Statistics I (prerequisite: Ms 151 and 173)	3
Ms	261	Probability and Statistics II	3

### JUNIOR YEAR

Ms	350	Geometric Structures I	3
Ms	351	Geometric Structures II (prerequisite: Ms 350)	3
Ms	370	Abstract Algebra (prerequisite: Ms 272)	3
Ms	371	Linear Algebra	3
Ms Ed	312	Teaching Secondary School Mathematics (7-12)	3

### SENIOR YEAR

Ms	471	Foundations of Mathematics	3
Ms	473	History of Mathematics	3

## Secondary Mathematics Major

Required: Ms 150, Ms 151, Ms 173, Ms 250, Ms 260, Ms 272, Ms 350, Ms 370, plus mathematics electives numbered ending in 50's or above to make at least 36 hours, plus Ms Ed 312. (Ms 120 and Ms 121 may be accepted by the department for students with insufficient background.)

## Secondary Mathematics Minor

Required: Ms 150, Ms 151, Ms 173, Ms 350, plus mathematics electives numbered ending in 50's or above to make at least 24 hours. (Ms 120 and Ms 121 may be accepted if necessary for the individual.)

## Mathematics Minor (Kindergarten-Primary, Elementary)

Any 18 hours of mathematics which may include:

Ms	100	Elements of Mathematics I	3
Ms	101	Elements of Mathematics II	3
Ms	310	Basic Concepts of Algebra	3
Ms	311	Informal Geometry	3
Ms	320	Introduction to Statistics	3



# Program for Biological Science Majors and Minors

## Biological Science Major, Secondary

FRESHMAN YEAR *and Sophomore year*

Choose two courses from the following:

			Credit Hours
Sci	<del>250</del> <del>-350</del>	Vascular Botany	4
Sci	<del>351</del> 251	Non-Vascular Botany	4
Sci	<del>352</del> 252	Invertebrate Zoology	4
Sci	<del>-353</del> 253	Vertebrate Zoology	4

## SOPHOMORE YEAR

Choose either

Sci	<del>361</del> 362	Physics I and II	
Sci	<del>364</del> 365	Chemistry I and II	8
	220		
	221		

# BIOLOGICAL SCIENCE PROGRAM

## SOPHOMORE, JUNIOR AND SENIOR YEARS

Choose at least three courses from the following concepts courses:

Sci	357	Historical Geology	3
Sci	358	Ecology	3
Sci	359	Conservation of Natural Resources	3
Sci	366	History of Science	3
Sci	367	Physiology and Anatomy	3
Sci	420	Embryology	3
Sci	450	Genetics	3
Sci	451	Evolution	3
Sci	460	Comparative Anatomy	3

Select two courses from the following:

Sci	369	Microbiology	4
Sci	370	Ornithology	3
Sci	372	Ichthyology	4
Sci	400	Biological Techniques	3

Select Sci 361-362 Physics I and II, if not completed, OR Sci 364-365 Chemistry I and II, if not completed, PLUS an additional four credits in advanced Chemistry courses.

Select Ms-260 Probability and Statistics I. *MS 220 Intro. to Stat.*

Select Sci Ed 360 Science Methods (7-12).



# Program for Science Area Majors and Minors

## Science Area Major, Secondary? 50 hrs

### FRESHMAN YEAR

Sci 100-101

Physical Science

(If qualified by examination, the student may register for either Physics or Chemistry)

6

8

### SOPHOMORE YEAR

Sci 200-201

Biological Science

(If qualified by examination, the student may substitute an advanced course in Botany or Zoology)

4

8

### SOPHOMORE, JUNIOR AND SENIOR YEARS

Select at least 34 hours from the following: 40

At least 8 credit hours?

Credit  
Hours

Sci 361

Physics I

4

Sci 362

Physics II

4

Sci 364

Chemistry I

4

Sci 365

Chemistry II

4

At least 8 credit hours

Sci 350

Vascular Botany

4

Sci 351

Non-vascular Botany

4

Sci 352

Invertebrate Zoology

4

Sci 353

Vertebrate Zoology

4

Sci 358

Ecology

3

Sci 367

Physiology and Anatomy

3

Sci 372

Icthyology

4

Sci 420

Embryology

3

Sci 450

Genetics

3

Sci 451

Evolution

3

At least 3 credit hours

Sci 356

Physical Geology

3

Sci 357

Historical Geology

3

Sci 363

Astronomy

3

Sci 368

Meteorology

3

Sci 373

Mineralogy

3

At least 3 credit hours

Sci 355

Natural History Science

3

Sci 359

Conservation of Natural Resources

3

Sci 366

History of Science

3

## Biological Science Minor, Secondary

A minimum of 18 credit hours in basic and advanced Biology.

## Science Minor (Kindergarten-Primary, Elementary)

Required:

Sci 100-101

Physical Science

Credit  
Hours

6

Sci 200-201

Biological Science

4

Electives:

At least two courses from the following:

Sci 355

Natural History Science

3

Sci 356

Physical Geology

3

Sci 357

Historical Geology

3

Sci 358

Ecology

3

Sci 359

Conservation of Natural Resources

3

Sci 363

Astronomy

3

Sci 366

History of Science

3

Sci 367

Physiology and Anatomy

3

Sci 368

Meteorology

3



# Curriculum for Art Education Majors

## General Education

Art Education students are required to take the same basic general education courses outlined for all college students. In addition, 13 credit hours are elected from general education courses bringing the total to 55 credit hours.

## Professional Education

Art Education majors are required to complete the same minimum number of professional education courses as all other students, except those in Secondary Education.

## Area Specialization

The sequence of courses in Art is as follows:

			Credit Hours
Art	100, 101, 200, 201	Foundations of Art	12
FA	102-103	Art Appreciation & History	6
Art	202, 302	Arts & Crafts	6
Art	203, 303	Drawing Techniques	6
Art	300, 400	Painting Techniques	6
Art	301	Graphics	3
Art	304	Three Dimensional Art	2
Art	305	Contemporary Art	3
Art Ed	300	Elementary Art Education	2
Art Ed	301	Secondary Art Education	2
Art	401	Aesthetics	3
Art	402	Advanced Problem in Art	3
Art Ed	400	Problems of Teaching & Supervision	4
			<hr/> 58

The Art Education Curriculum requires a total of 130 credit hours.

# Art Education Curriculum

## FRESHMAN YEAR

			Credit Hours
Eng	100-101	English Composition	6
Sci	100a	Physical Science Concepts	3
Sci	200 <del>4</del>	Biological Science Concepts	<del>3</del>
SS	—	Social Science Elective	3
Math	100	Elements of Mathematics I	3
PE	100-101	Physical Education	1
FA	102-103	Art Appreciation and History	6
Ed	100	The American School	2
Art	100-101	Foundations of Art	6
			<hr/> 36

## SOPHOMORE YEAR

Eng	210	American Literature	3
SS	—	Social Science Electives	6
Psy	200	General Psychology	3
Eng	250	Speech	2
PE	102	College Health	2
PE	200-201	Physical Education	1
Art	200-201	Foundations of Art	6
Art	202	Arts & Crafts I	3
Art	203	Drawing Techniques I	3
Elective			3
			<hr/> 32

## JUNIOR YEAR

FA	101	Music Appreciation & History	3
Psy	300	Human Growth & Development	3
Art Ed	300	Elementary Art Education	2
Art Ed	301	Secondary Art Education	2
Art	303	Drawing Techniques II	3
Art	300	Painting Techniques I	3
Art	301	Graphics	3
Art	302	Arts & Crafts II	3
Art	304	Three Dimensional Art	2
Art	305	Contemporary Art	3
Electives			6
			<hr/> 33

## SENIOR YEAR

Ed	401	Philosophy of Education	3
Ed	402	Student Teaching	12
Art Ed	400	Problems of Teaching & Supervision	4
Art	400	Painting Techniques II	3
Art	401	Aesthetics	3
Art	402	Advanced Problem in Art	3
Electives			4
			<hr/> 32



# Curriculum for Music Education Majors

## General Education

Music Education students are required to complete the same basic general education requirements as all other students.

## Professional Education

In addition to the basic 26 credit hours in professional education required of all students, except those in Secondary Education, Music majors must complete the following:

		Credit Hours
Mus Ed 200	Brass Class	2
Mus Ed 201	Woodwind Class	2
Mus Ed 300-301	Music Education Methods	6
Mus Ed 302-303	String Class	4
Mus Ed 400	Administration & Supervision	3
		<hr/> 17

## Area Specialization

The Music content program consists of the following:

Mus 102, 103, 202, 203	Theory	12
Mus 104, 105, 206, 207, 306, 307	Applied Music	24
Mus 106, 107, 208, 209, 308, 309, 403	Vocal Ensemble	3½
Mus 108, 109, 210, 211, 310, 311, 404	Recital Class	3½
Mus 100, 101, 200, 201,	History of Music	12
Mus 302, 303	Instrumental and Vocal Conducting	4
Mus 400	Orchestration	3
		<hr/> 62

The Music Education Curriculum requires a total of 138 hours.



# Music Education Curriculum

## FRESHMAN YEAR

			Credit Hours
Eng	100-101	English Composition	6
Ed	100	The American School	2
Math	100	Elements of Math I	3
Mus	100-101	History of Music I and II	6
Mus	102-103	Theory I and II	6
Mus	104-105	Applied Music	8
Mus	106-107	Vocal Ensemble	1
Mus	108-109	Recital Class	1
PE	100-101	Physical Education	1
			<hr/>
			34

## SOPHOMORE YEAR

FA	100	Art Appreciation and History	3
Mus	200-201	History of Music III and IV	6
Mus	202-203	Music Theory III and IV	6
Mus Ed	200	Woodwind Class	2
Mus Ed	201	Brass Class	2
Mus	206-207	Applied Music	8
Mus	208-209	Vocal Ensemble	1
Mus	210-211	Recital Class	1
PE	200-201	Physical Education	1
Psy	200	General Psychology	3
Psy	300	Human Growth and Development	3
			<hr/>
			36

## JUNIOR YEAR

Mus Ed	300-301	Music Education Methods	6
Mus Ed	302-303	String Class	4
Mus	302	Instrumental Conducting	2
Mus	303	Vocal Conducting	2
Mus	306-307	Applied Music	8
Mus	308-309	Vocal Ensemble	1
Mus	310-311	Recital Class	1
Sci	100a	Physical Science Concepts	3
Sci	200a	Biological Science Concepts	4
SS	—	Social Science Elective	3
PE	102	College Health	2
			<hr/>
			35

## SENIOR YEAR

Ed	401	Philosophy of Education	3
Ed	402	Student Teaching	12
Eng	210	American Literature	3
Eng	250	Speech	2
Mus Ed	400	Music Administration and Supervision	3
Mus	400	Orchestration	3
Mus	403	Vocal Ensemble	1/2
Mus	404	Recital Class	1/2
SS	—	Social Science Electives	6
			<hr/>
			33

# Curriculum for Industrial Arts Education Majors

## General Education

Industrial Arts students are required to take the same basic core of general education courses outlined for all college majors. In addition, they must complete the following:

			Credit Hours
Math	101	Elements of Mathematics II	3
IA	460	Modern Industry	3
		Electives	6-9

The total number of credit hours in the general education sequence is 54-57.

## Professional Education

The minimum number of professional education courses required of industrial arts majors is the same as that for other majors, except those in Secondary Education. The Curriculum Methods and Materials course, for 6 credits, consists of the following:

			Credit Hours
IA Ed	300	Analysis and Course Development	3
IA Ed	350	Methods and Materials of Instruction	3

Other courses required in the professional sequence are:

IA Ed	404	Seminar in Teaching	2
IA Ed	450	Laboratory Organization and Management	3

The total number of credit hours in professional education is 33.

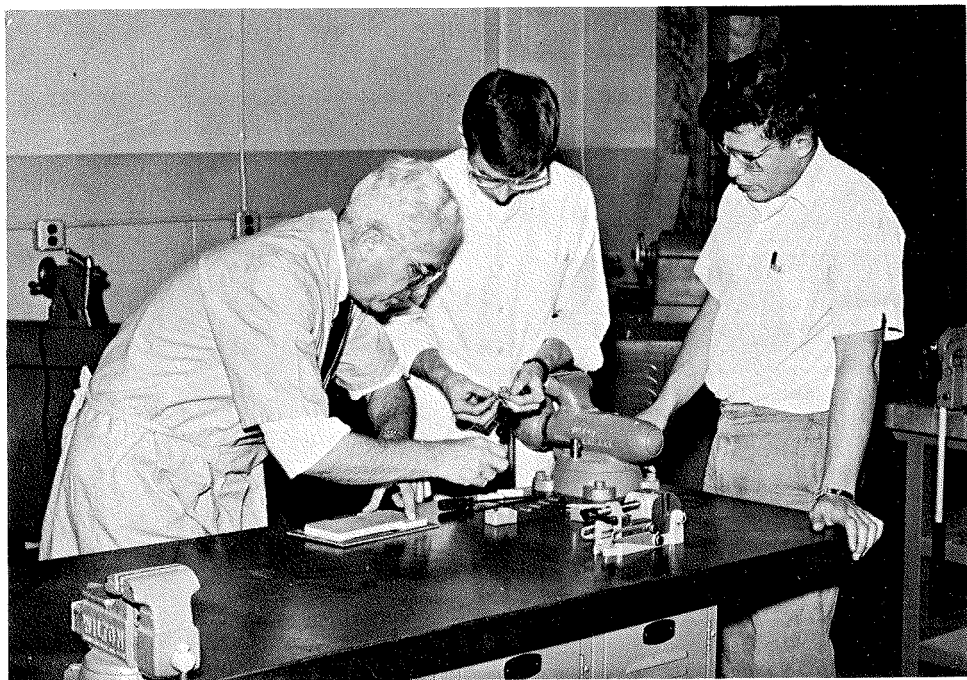
## Technical Education

To be qualified to teach in the comprehensive general laboratories of the state, all majors must complete the following:

IA 103	Introduction to Technology	3
Manufacturing and Construction Industries		
IA 151, 206, 208*, 305, 306		4
Power-Transportation Industries		
IA 207, 307		6
Electrical-Electronics Industries		
IA 208, 308		6
Visual Communication Industries		
IA 104, 152, 204, 150, 309		10
Service Industries		
IA 207*, 306*, 307*, 308*		
Electives		
IA 410, 411, 412, 413		3
IA 450 through 458		4-6

\*Unit within courses indicated

The total number of credit hours both required and elective in the technical sequence is 46-48.



## Industrial Arts Curriculum

### FRESHMAN YEAR

			Class Hours	Credit Hours				Class Hours	Credit Hours
Eng	100	English I	3	3	Eng	101	English II	3	3
Math	100	Mathematics	3	3	Math	101	Mathematics II	3	3
PE	102	Health	2	2	Sci	100a	Phys. Sc. Concepts	4	3
PE	100	Phys. Education	2	$\frac{1}{2}$	PE	101	Phys. Education	2	$\frac{1}{2}$
FA	100	Art Appr. & Hist.	3	3	Ed	100	American School	2	2
IA	103	Intr. to Technology	6	3	IA	150	Graphic Arts I	4	2
IA	104	Graphics I	4	2	IA	151	Crafts Ind. I	4	2
			<u>23</u>	<u>16<math>\frac{1}{2}</math></u>	IA	152	Graphics II	4	2
								<u>26</u>	<u>17<math>\frac{1}{2}</math></u>

### SOPHOMORE YEAR

Sci	200#	Biol. Concepts	4	4	FA	101	Music Apprec.	3	3
Psy	200	General Psychology	3	3	Eng	210	Amer. Literature	3	3
SS	—	Elective	3	3	Eng	250	Speech	2	2
PE	200	Phys. Education	2	$\frac{1}{2}$	SS	—	Elective	3	3
IA	204	Graphics III	4	2	PE	201	Phys. Education	2	$\frac{1}{2}$
IA	205	Wood Tech. I	6	3	IA	207	Power & Trans. I	6	3
IA	206	Metal Tech. I	6	3	IA	208	Electronics I	6	3
(IA	207	Power & Trans. I	6	3)	(IA	205	Wood Tech. I	6	3)
(IA	208	Electronics I	6	3)	(IA	206	Metal Tech. I	6	3)
			<u>28</u>	<u>17<math>\frac{1}{2}</math></u>				<u>25</u>	<u>17<math>\frac{1}{2}</math></u>

## INDUSTRIAL ARTS CURRICULUM

### JUNIOR YEAR

Psy 300	Human Growth & Dev.	3	3	SS —	Elective	3	3
IA Ed 300	Anal. & Course Dev.	3	3	IA Ed 350	Methods & Mat.	4	3
IA 305	Wood Tech. II	6	3	IA 307	Power & Trans.	6	3
IA 306	Metal Tech. II	6	3	IA 308	Electronics II	6	3
(IA 307	Power & Trans. II	6	3)	(IA 305	Wood Tech. II	6	3)
(IA 308	Electronics II	6	3)	(IA 306	Metal Tech. II	6	3)
IA 309	Graphic Arts II	4	2	(Minor)	Tech. Elective	4	2
Free Elective (Tech. or G.E.)		4(3)	2(3)		G.E. Elective	3	3
		26(25)	16(17)			26	17

### SENIOR YEAR

Ed 402	Student Teaching	12	IA 460	Mod. Industry	3	3
Ed 411	Measurement and Eval.	2	Ed 401	Phil. of Educ.	3	3
IA Ed 404	Seminar in Teaching	2	IA Ed 450	Lab. Org. & Mgt.	3	3
		16	(Major)	Tech. Elective	6	3
			(Minor)	Tech. Elective	4	2
				G.E. Elective	3	3
					22	17

### Technical Electives

Major:	IA 410	Wood Tech. III
	IA 411	Metal Tech. III
	IA 412	Power & Trans. III
	IA 413	Electronics III
	(6 class hours and 3 semester hours)	
Minor:	IA 450	Graphics IV
	IA 451	Materials Testing
	IA 452	Instrumentation
	IA 453	Fluid Power
	IA 454	Graphic Arts III
	IA 455	Graphic Arts IV
	IA 456	Crafts Industries II
	IA 457	Plastics Technology
	IA 458	Metal Tech. IV
	(4 class hours and 2 semester hours)	

### Social Science Electives

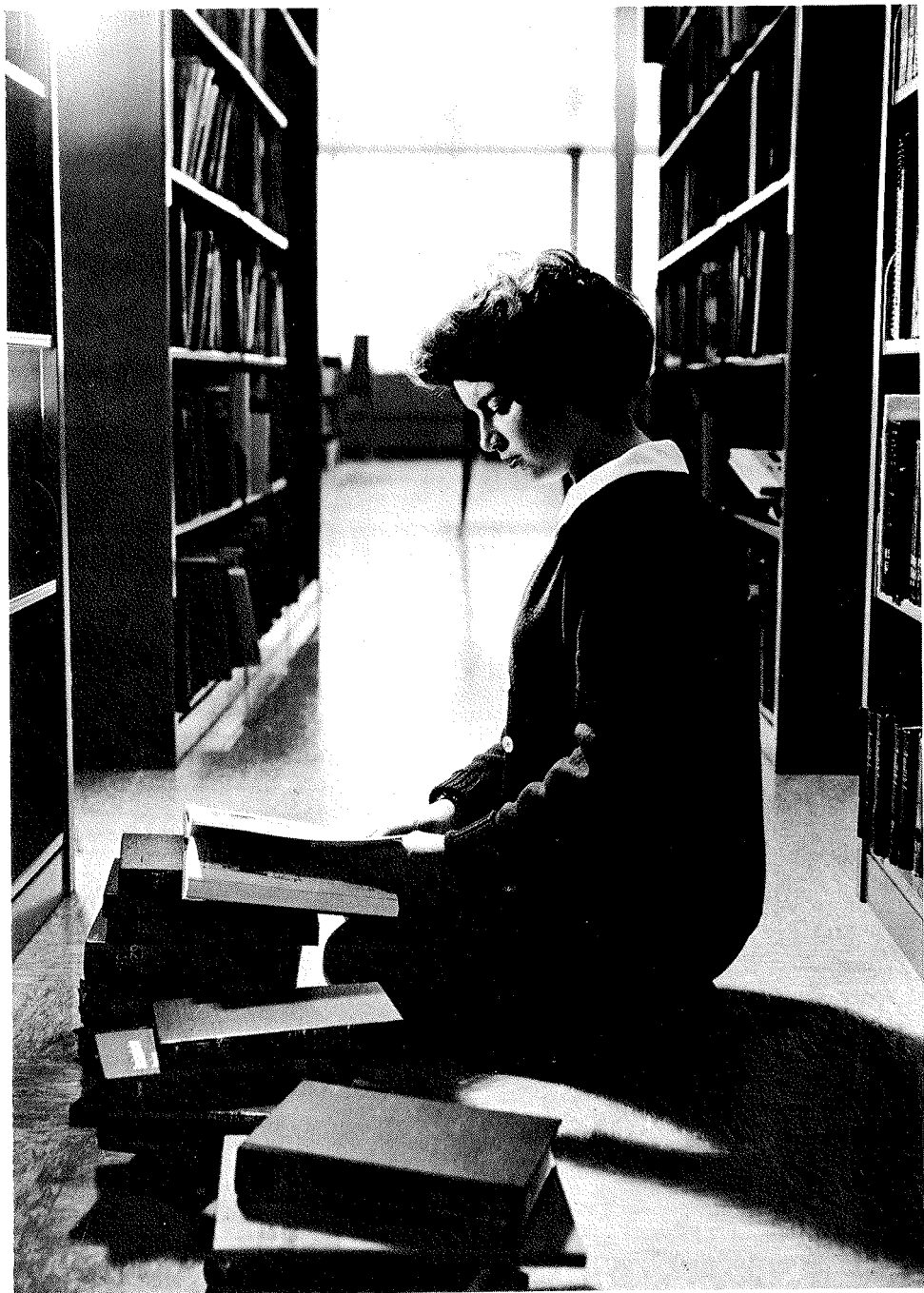
SS 200	U.S. History
SS 101	Modern Civilization
SS 202	Principles of Geography
SS 203	Sociology
SS 300	Economics

### Vocational Industrial Education

The Vocational-Industrial curriculum prepares instructors for the teaching of vocational-industrial and/or technical subjects in the high schools and post-secondary schools of Maine. Candidates for the degree in this curriculum must be eligible for vocational teaching certification. Consult the Dean of Academic Affairs for further information.

### Clinical Training in Manual Arts Therapy

An opportunity is provided junior and senior Industrial Arts majors to participate in a clinical training program provided by Veterans Administration Hospital, Brockton, Massachusetts. Two hundred and forty hours, or six weeks, to be spent at hospital, at convenience of student. Transportation not furnished, but room and board provided at no expense. Consult department chairman for further details.



## Courses of Study



## Art

Associate Professor Schoneberg; Assistant Professor Miner; Mr. Rappaport, Mrs. Sawtelle.

### **FA 100 Art Appréciation and History**

Mr. Miner, Mr. Rappaport

Key periods of artistic creativity illustrated by slides and reproductions. Lectures, text, and readings point up the richness and diversity of aesthetics as a basis for mature understanding. Special attention to the visual arts of the Egyptian, Greek, Medieval, Renaissance, and Baroque periods. The relationship between visual images and such cultural factors as politics, religion, literature, and psychology. Materials for study include architecture, sculpture, painting, and selected examples of ceramics, graphic and decorative arts.

Three credit hours

### **FA 102-103 Art Appreciation and History**

Mr. Miner

A survey of art history for students in the Art Education program. Each epoch is considered in greater depth than in FA 100, special attention being directed to the teaching of art. Divergent viewpoints of the art historian, art critic, and art teacher; experiments, by means of writing assignments, with each of these approaches. An overview of the visual arts, showing the interrelationship of cultural values, art techniques, and major art works.

Six credit hours

(Three credits each semester)

### **FA 200 Art Fundamentals**

Mrs. Sawtelle

An introduction to the elements and principles of design and color, and their application to projects suitable for art work in the elementary grades.

Two credit hours

### **Art 100-101, 200-201 Foundations of Art**

Mr. Miner, Mr. Rappaport

The grammar and vocabulary of visual expression, communicated through a series of problems which encourages the development of personal expression and technical competence.

Art 100-101: The control of pictorial space and form; expression in dark and light, its materials and techniques; color theory and experimentation.

Art 200-201: The areas of design; artistic mastery; expression in three dimensions.

Twelve credit hours

(Three credits each semester)

**Art 202 Arts and Crafts I**

Mr. Monteleone

An introduction to the handicrafts: the use of simple tools and materials found in the typical elementary classroom.

Three credit hours

**Art 203 Drawing Techniques I**

Mr. Schoneberg

An introduction to the language of drawing as it has been, and is, used in problems of communication, design, and expression. Introduction to the principles of graphic expression in all black-and-white media.

Three credit hours

**Art 260 Handicrafts for the Elementary Teacher**

Mrs. Sawtelle

An elective course using materials found in the average elementary school and scrap materials which children can bring from home for making three dimensional projects to be used as gifts, decorations, sand-table projects, dioramas, puppet shows, etc.

Two credit hours

**Art 300 Painting Techniques I**

Mr. Schoneberg

An introduction to painting, specifically the technical and formal problems of controlling a medium. The traditional functions of painting are explored both as an imaginative and technical stimulus for the student. Expressionistic, didactic, primitive, and experimental modes of past masters are contrasted with the subjective and objective categories of contemporary artists.

Three credit hours

**Art 301 Graphics**

Mr. Rappaport

Problems in the print media: woodcut, serigraph, lithography, and etching; layout, illustration, and letter design. The usefulness of these communication media for poster, yearbook, and other school needs is emphasized.

Three credit hours

**Art 302 Arts and Crafts II**

Mr. Monteleone

Advanced projects in the handicrafts, involving art metalwork, ceramics, leathercraft, the textile arts, etc.

Three credit hours

**Art 303 Drawing Techniques II**

Mr. Rappaport

Advanced study of the language of drawing; special emphasis on technical experimentation and the use of a variety of media. Application of concepts of visual form to figure, object, and landscape problems. Prerequisite: Art 203.

Three credit hours

**Art 304 Three-Dimensional Art**

Mr. Miner

An examination of the problems of motion, balance, rhythm, and expression in the art of sculpture and architecture. A series of problems designed to clarify the relationships between three-dimensional and two-dimensional organization. The principles of the additive and subtractive approaches to sculpture. Three-dimensional techniques for use in the schools: imagination and craftsmanship as means of stimulating creative expression in mass and space.

Two credit hours

**Art 305 Contemporary Art**

Mr. Schoneberg

European and American painting, sculpture, and architecture from 1850 to the present. A study of the changes in artistic form which characterize the modern movement. The course also surveys the emergence of American art from its European background.

Three credit hours

**Art 400 Painting Techniques II**

Mr. Schoneberg

Advanced problems and instruction: a course centered on original student work and aimed at deepening the student's understanding of the artistic production of others as well as developing his own expressive competence to a professional degree. Prerequisite: Art 300.

Three credit hours

**Art 401 Aesthetics**

Mr. Miner

An investigation into theories of art and beauty in the writings of philosophers, painters, writers, and critics that form the basis of our understanding of the fine arts. Readings and discussion of writers from ancient to modern times.

Three credit hours



## ART

### Art 402 Advanced Problem in Art

The Staff

An opportunity for the student to do advanced independent study in the field of his particular interest. Completion of a unit or series of related projects in art education is required.

Three credit hours

### Art Ed 300 Elementary Art Education

Mrs. Sawtelle

A study of growth and development in the creative abilities of children; how to utilize art projects to foster initiative, imagination, cooperation, and appreciation in the elementary classroom.

Two credit hours

### Art Ed 301 Secondary Art Education

Mrs. Sawtelle

A study of classroom experiences in art on the secondary level; introduction to units of teaching designed to enrich the general secondary curriculum.

Two credit hours

### Art Ed 400 Problems of Teaching and Supervision

Mrs. Sawtelle

Intended primarily for student-teachers of art, this course takes the form of discussion and problem-solving. Students endeavor to arrive at a basic philosophy of art education and a tentative instructional technique.

Four credit hours



# Education and Psychology

Associate Professors Bowman, Cobb, Littlefield, E.; Mildred Peabody, Southworth; Assistant Professors Costello, M.; Zax; Mr. Bunker, Mr. Davis, Mr. Fickett, Mr. Milbury \*

\* On leave of absence, 1966-67.

## Ed 100 The American School

Miss Littlefield, Mr. Zax

An introduction to public education — its history, organization, functions and issues. Elementary and secondary curricula, including special areas are considered, as well as the social, economic, and professional aspects of teaching. School visitations provide opportunities for self-evaluation and direction.

Two credit hours

## Ed 300 Primary Curriculum: Methods and Materials

Miss Mildred Peabody

A core course which analyzes curriculum, methods, and materials from kindergarten through third grade, with special attention to language arts and social studies. Topics include programming, types of curricula, evaluation, development of units, lesson planning, grouping, sociometric procedures, reporting to parents, analysis of textbooks, and audio-visual techniques. Observation, participation, and supplementary guest speakers.

Three credit hours

## Ed 302 Elementary Curriculum: Methods and Materials

Mrs. Costello, Mr. Bunker

A basic course which emphasizes language arts and social studies in the intermediate grades. Includes programming, types of curricula, evaluation, development of units, lesson planning, grouping, sociometric procedures, reporting to parents, analysis of textbooks, and audio-visual techniques. Observations and resource speakers are included.

Three credit hours

## Ed 303 Primary Reading

Miss Mildred Peabody

Approved methods in the teaching of reading at all levels, with special emphasis on the beginning reading program. Comparisons of the various reading procedures used currently, including the developmental program, independent reading, grouping, phonetic approach, reading readiness, study skills, ungraded reading, and remedial problems. Introduction to the tachistoscope, accelerator, and reading laboratory. Analysis of recent textbooks in the Curriculum Laboratory. Observation and participation.

Three credit hours

## Ed 304 Elementary Reading

Miss Mildred Peabody

Approved methods in the teaching of reading, with particular stress on word-analysis and the development of reading study skills. Comparison of current reading procedures, including the development program, independent reading, grouping, phonetics, and remedial reading. Use of the tachistoscope, accelerator, and reading laboratories; analysis of recent intermediate-grade textbooks in the Curriculum Laboratory. Observation and participation.

Three credit hours

## Ed 305 Primary Arithmetic

Miss Mary Peabody

The new approach in teaching arithmetic in primary grades, overview of all levels, and applied work in primary grade area. Preparation of materials; study of current textbooks and experimental programs; analysis of content needed to provide orientation in structure, properties, sets, number systems, and other basic themes of modern mathematics.

Three credit hours

## Ed 306 Elementary Arithmetic

Miss Mary Peabody

This course closely parallels Ed 305 except that it is concerned with teaching arithmetic in the elementary grades.

Three credit hours

## Ed 307 Junior and Senior High Reading

Mr. Fickett

Currently approved methods in the teaching of reading. A comparison, with emphasis on continuity, of various reading procedures. Word analysis and reading study skills as they apply to each subject-matter area of the junior high school.

Two credit hours

## Ed 308 Science and Health for the Primary Teacher

Mrs. Kerr, Miss Fitz

An inductive, scientific approach to science and health, from kindergarten through third grade; materials, experiments, and themes appropriate to this level; use of a teaching team to interrelate health and physical education.

Two credit hours

## EDUCATION

### Ed 309 Junior and Senior High Organization and Materials

Mr. Zax, Mr. Fickett

The philosophy, purpose, and organization of the junior high school. Approved practices of planning and differentiated instruction; unique functions of this type of school. Overview of the self-contained classroom as found in the upper grades.

Three credit hours

### Ed 310 Science and Health for the Elementary Teacher

Mrs. Kerr, Miss Fitz

Problems and methods of teaching science and health. Current practices and teaching materials are emphasized and evaluated.

Two credit hours

### Ed 401 Philosophy of Education

Mr. James Whitten

A course designed to examine the major historic and current viewpoints about the nature, aims, and practices of education. The relationship of philosophy to personal and professional maturity is the theme of the course.

Three credit hours

### Ed 402 Student Teaching

The Staff

For one semester of the senior year all students are assigned to full-time student teaching under careful supervision. The semester is divided into two terms to provide opportunities to teach in two different situations: for this purpose the Millett Laboratory School, the Village Elementary School, and other cooperating schools are utilized. Student teaching embraces the following categories: Kindergarten-Primary, General Elementary, Junior-Senior High School, Music, Art and Industrial Arts.

Twelve credit hours

### Ed 403 Seminar in Primary Education

Miss Mildred Peabody

Consideration of such critical problems in primary education as school law in relation to the primary teacher; grouping and individual differences; basic organization of student teaching; the primary teacher in relation to community, school, and state. Faculty members from special areas as well as visiting lecturers participate.

Two credit hours

### Ed 404 Seminar in Elementary Education

Mrs. Costello, Mr. Bunker

A study of basic issues in elementary education: school law; professional and ethical procedures; organization of student teaching; and teacher relationships with schools, community, and state.

Two credit hours

### Ed 405 Seminar in Junior and Senior High School Education

Mr. Cobb, Mr. Zax

The major professional concerns of the junior and senior high school teacher: school law; professional and ethical procedures; organization of student teaching; and teacher relationships with school, community, and state.

Two credit hours

### Ed 411 Measurement and Evaluation

Mr. Bowman, Mr. Cobb

Construction, selection, and use of educational achievement tests, including diagnostic and survey instruments. Skill in writing essay and objective types is developed. An inquiry into the validity and reliability of typical standardized tests. Elements and uses of statistics, tabulation of data, measures of central tendency, variability, and correlation.

Two credit hours

### Ed 452 Remedial Reading

Miss Mildred Peabody

An empirical approach, relating class discussions to clinical observation. Methods by which the teacher copes with individual difficulties are explored. Testing and diagnostic work are studied and applied to subject-groups. Prerequisite: a grade of A or B in Ed 303, 304, or 307.

Three credit hours

### Ed 453 Preparation of Classroom Instructional Materials

Mr. Davis

A lecture-laboratory series which involves students in the creation of instructional materials. Techniques include the dry mounting of flat pictorial materials, cloth backing of pictorial materials, professional-quality lettering, rudimentary photography and processing (including use of the darkroom), and the production, by several techniques, of transparent projectuals. Classes limited to 18. No prerequisite.

Two or Three credit hours

### Ed 454 Advanced Production of Audio-Visual Materials

Mr. Davis

Further sophistication of insight and refinement of skills in the local production of



instructional materials. Prerequisite: Successful completion of Ed. 453. Limited to twelve students.

Three credit hours

#### **Psy 200 General Psychology**

Mr. Southworth

An introductory course emphasizing the development of a psychological vocabulary, a way of thinking, and the application of basic principles to everyday living. Major topics include motivation, emotions, intelligence, effective learning and thinking.

Three credit hours

#### **Psy 300 Human Growth and Development**

Mr. Bowman

A study of significant elements in the physical, mental, emotional, and social make-up of children as they develop from infancy to adolescence. Selected case studies and projects in the application of basic principles of growth and development to problems of adjustment to school, home, and community. Special attention is given to the developmental tasks of school-age children.

Three credit hours

#### **Psy 401 Psychology of the Self**

Mr. Southworth

An exploration of the development of the self as it is influenced by learning perception, teaching and growth. Learning techniques include extensive reading, participation in group discussions and introspection.

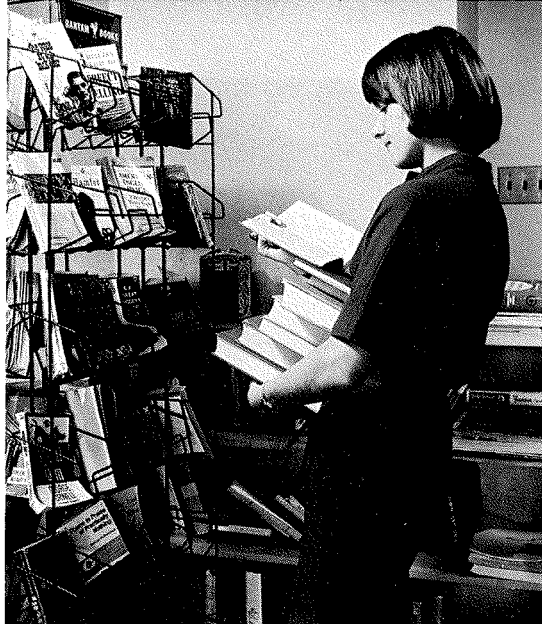
Three credit hours

#### **Psy 402 Group Dynamics**

Mr. Southworth

Analysis of the meaning of small group dynamics, including an understanding of the roles individuals play within various groups. Problems of leadership are considered and techniques and materials useful under many circumstances are examined.

Three credit hours



## English

Professors Hanna, Spencer\*; Associate Professor Rootes; Assistant Professors Rutherford, Sawyer; Mr. Bowden, Mr. MacDougall, Mr. O'Reilly, Mr. Robbins, Mr. Rosen, Mr. Smith, Mr. Thompson, Mr. Vincent.

\* On leave of absence, 1966-67

### Eng 100-101 English Composition

The Staff

The basic freshman course, uniting the principles of written composition, the growth and structure of language, and the critical evaluation of literary genres. Practice in writing, with special attention to mechanics and style followed in the second semester by the study of poetry, drama, and the short story. Preparation for advanced courses in English through the refinement of reading habits and tastes.

Six credit hours  
(Three credits each semester)

### Eng 200 English Literature I

Mr. Hanna, Mr. Vincent

A survey course in English literature from its beginnings through the 18th Century. Intensive readings in Chaucer, Spenser, Shakespeare, Bacon, Donne, Milton, Dryden, Swift, Pope, Johnson, and Boswell. Required of English majors and minors.

Three credit hours

### Eng 201 English Literature II

Mr. Hanna

An extension of English Literature I, this survey covers the representative British writers of the Romantic, Victorian and modern periods. Focuses on Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Shaw, Yeats, and Eliot. Prerequisite: Eng. 200. Required of English majors.

Three credit hours

### Eng 210 American Literature

Mr. O'Reilly, Mr. Rosen

A course in American Literature and its development from the late 18th Century through the early 20th Century. Emphasis is on major writers and their contribution to the literary heritage. Intensive reading of paperbacks supplements text. Required of all students.

Three credit hours

**Eng 220 Introduction to Journalism**

Mr. Bowden

A course designed to provide a survey of mass communications history from the beginning to the present. A study is made of press freedom, development of the printed media, legal aspects of journalism and the influence of mass communications on society. The course deals with press associations, syndicates, advertising, radio, television and the film. Time is devoted to the technology of journalism and practical experience in the techniques of news-gathering, writing and editing, copy reading, headline writing and makeup. A field trip to a daily newspaper is included.

Three credit hours

**Eng 230 Oral Reading**

Mr. Robbins

A course in the assimilation and analysis of literary material (poetry, prose, drama), with emphasis on the techniques used in reading written material aloud to an audience. Designed primarily to aid the teacher in motivating student interest and developing skill in reading literature.

Three credit hours

**Eng 240 Persuasion**

Mr. Robbins

This course involves the development of necessary skills in planning extemporaneous persuasive speeches. Particular emphasis is placed on problems involved in effective reasoning and criticism. Permission of the instructor required.

Three credit hours

**Eng 250 Speech**

Mr. Rootes, Mr. Robbins

The basic principles of organization and the techniques of delivery employed in expository speaking. Students prepare and deliver four speeches, receiving detailed analysis and criticism of both the written plan and the delivered speech.

Two credit hours

**Eng 350 Children's Literature**

Miss Sawyer

Designed to acquaint students with varied types of literature for children in the lower and middle grades. Emphasizes extensive reading, but also includes the selection, critical evaluation, and use of materials. Does not count toward English major or minor.

Two credit hours

**Eng 351 Advanced Composition**

Mr. Vincent

For students desiring to gain increased proficiency in writing. Study of all forms of discourse, but with concentration on exposition. Analysis of selected readings. Criticism of writing.

Two credit hours

**Eng 352 Shakespeare**

Mr. Vincent

A study of the major chronicle plays, and of select comedies and tragedies. Minor emphasis on Shakespeare's development, the Elizabethan stage, textual problems, and historical criticism.

Three credit hours

**Eng 360 World Literature I**

Mr. Hanna

A close analysis of literary works of the classical, medieval, and Renaissance periods. Readings in the *Old and New Testaments*, the *Iliad* and the *Odyssey*, Greek tragedy, the *Aeneid*, the *Divine Comedy*, the *Song of Roland*, the *Nibelungenlied*, the *Decameron*, *Gargantua and Pantagruel*, *Don Quixote*, and such works of English literature as time will allow. Collateral readings in background and criticism; class reports and a term paper.

Three credit hours

**Eng 361 World Literature II**

Mr. Hanna

Readings in fiction, drama, and poetry representative of neoclassicism, romanticism, realism, naturalism, symbolism, and the modern school. Chief continental writers: Moliere, Voltaire, Rousseau, Goethe, Balzac, Dostoevski, Flaubert, Tolstoy, Chekhov, and Ibsen. Selected contemporary poets and short story writers. Collateral readings in background and criticism; class reports and a term paper. Prerequisite: Eng 360, or consent of instructor.

Three credit hours

**Eng 365 Fundamentals of Acting**

Mr. Rootes

A course designed to educate and train the student to convey thought and emotion through the use of the body and voice. Mime, vocal exercises and improvisation. A study of the major styles of acting and of the various approaches to acting with emphasis on the Stanislavsky method.

Three credit hours

## ENGLISH

### Eng 366 The Augustans

Mr. Rutherford

A detailed survey of the major and minor poets and prose writers of the late Seventeenth and Eighteenth Centuries. The writings of Dryden, Pope, Swift, Johnson, and the Graveyard School as well as others are examined as to content, style, diction, and historical and literary commentary. Special emphasis is placed on the slow rise of Romanticism throughout the period.

Three credit hours

### Eng 380 Introduction to Linguistics

Mr. Rutherford

A general introduction to modern linguistic science, including studies in the development of the language, phonology, morphology, the dictionary, and varieties of English and usage. Also examined are the various grammatical philosophies and their methods — traditional, structural, and transformational.

Three credit hours

### Eng 440 History of the English Language

Mr. Rutherford

This course includes a survey of the pre-history of the language as well as a detailed study of the old, middle and modern English and the forces which shaped these stages. Some methods of modern linguistic science are utilized in examining current usage. Change and development of the language are emphasized.

Three credit hours

### Eng 450 The Nature of Poetry

Miss Sawyer

An intensive study of the elements of poetry, involving close reading of poems of varied types. Designed to give insight into the poetic process and to develop appreciation and discrimination in reading poetry.

Two credit hours

### Eng 451 The Short Story

Mr. Smith

A study of the modern short story as a literary form. The techniques and artistic effects of the outstanding works of many American, British, and Continental writers are evaluated through critical reading and discussion. Prerequisites: Eng 200 and 201.

Two credit hours

### Eng 452 Dramatic Production

Mr. Rootes

A basic course in dramatic production and in direction techniques and procedures. Covers such areas as setting, lighting, costuming, makeup, direction, and theater management. Each class will do production work on a play.

Three credit hours

### Eng 453 English Drama, 1580-1642

Mr. Thompson

Explores the most typical themes and styles of the drama of the period, as illustrated in the plays of the chief predecessors, contemporaries, and successors of Shakespeare.

Three credit hours

### Eng 454 Contemporary Literature

Miss Sawyer

Presents significant modern writers, largely English and American, as seen against the background of intellectual and social change in the Twentieth Century. Emphasizes wide and discriminating reading. Text is supplemented by the reading of four modern novels.

Three credit hours

### Eng 455 The Novel

Miss Sawyer

A course in the reading and critical evaluation of the work of representative novelists from Jane Austen to William Faulkner. Focus in the first half is on English and continental novels of the 19th century, and in the second half on modern novels.

Two credit hours

### Eng 456 Creative Writing

Mr. Vincent

An advanced course. Readings in narration, the short story, and the informal essay; study of tone, style, and point of view; writing with stress on narration. Consent of instructor required.

Two credit hours

### Eng 457 Modern Drama from Ibsen to Ionesco

Mr. Thompson

Plays by representative authors from the 19th Century to the "theater of the absurd." Centers about the concepts of realism, surrealism, tragedy, and tragi-comedy in the contemporary theater.

Three credit hours

**Eng 460 Fitzgerald, Hemingway and Faulkner**

Mr. Rosen

Through discussion of novels and short stories of the writers and consideration of their careers, an effort is made to assess their work and their contribution to America's cultural and intellectual tradition. The student is expected to refer to biographies, memoirs, critical studies and histories. Fifteen works by the writers are considered in class. Prerequisites: Junior Class standing or permission of the instructor.

Three credit hours

**Eng Ed 354 Teaching English in the Secondary School**

Mr. Smith

A methods course for English majors and minors. Review of the basic fundamentals of English grammar and writing skills. Creative approach to the teaching of both grammar and literature at the secondary level.

Three credit hours

## French

Assistant Professor Rolfe

**Fr 100-101 Elementary French**

Mr. Rolfe

An introduction to the French language with emphasis on comprehension, speaking, reading and writing.

Eight credit hours  
(Four each semester)

**Fr 200-201 Intermediate French**

Mr. Rolfe

A continuation of French 1 and 2. Recommended for students who have completed at least two years of high school French with good grades.

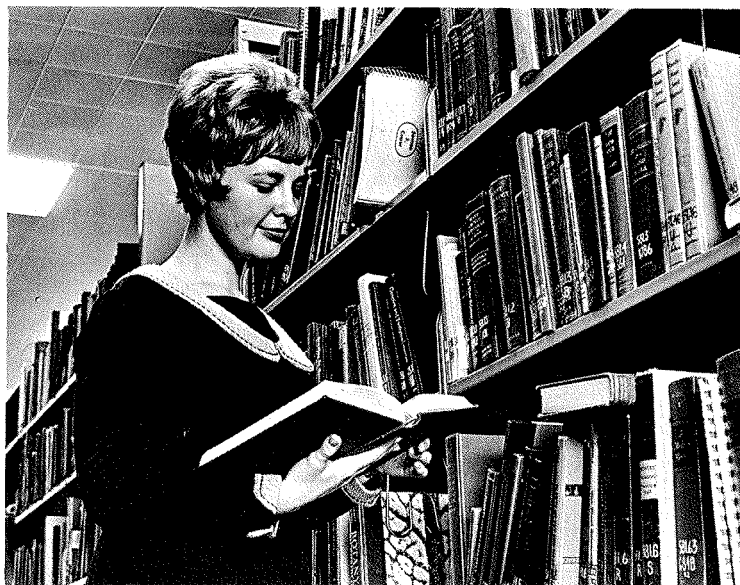
Six credit hours  
(Three each semester)

**Fr 280 French Literature**

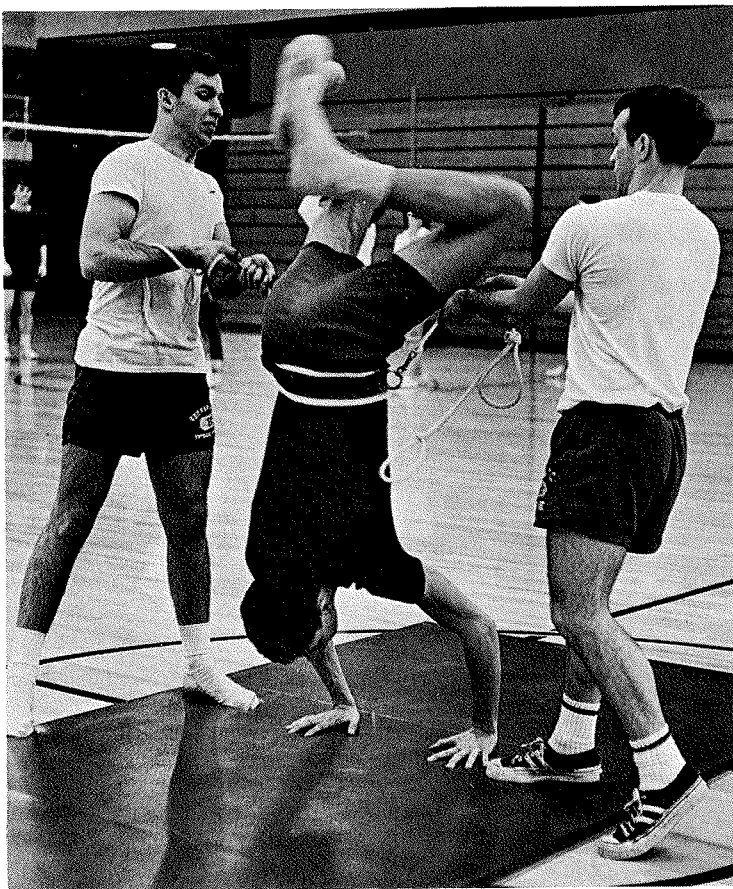
Mr. Rolfe

Readings of representative works in French drama, novel and poetry.

Three credit hours







## Health and Physical Education

Professor Costello, R.; Assistant Professors Fitz, Goodwin; Mr. Martin, Mrs. Perkins.

### PE 100-101 W

Miss Goodwin, Mrs. Perkins

A service program emphasizing fundamental skills in sports, body mechanics and rhythm. Includes instruction in tennis, archery, trampoline, tumbling, volleyball, folk and ballroom dance, and fundamentals of rhythm.

One-half credit hour

### PE 100-101 M

Mr. Martin

The development of physical fitness, skills, and leadership through conditioning exercises, touch football, soccer, volleyball, basketball, tumbling, softball, and a variety of games.

One-half credit hour

### PE 102 College Health

The Staff

Health instruction is a basic and required part of general education. The aim of this course is to help students grow in scientific health knowledge, develop desirable health attitudes, improve health practices, and solve individual and group health problems.

Two credit hours

## PHYSICAL EDUCATION

### PE 200-201 W

Miss Fitz

Major objective is the building of organic fitness. Fundamental skills, poise, relaxation, and leisure-time activities.

One-half credit hour

### PE 200-201 M

Mr. Costello

The course aims to continue to develop physical fitness, skills, and leadership through soccer, wrestling, and apparatus. Special emphasis placed on golf and tennis to provide the student with an understanding of, and a degree of proficiency in these activities with a high carry-over value.

One-half credit hour

### PE 350 Teaching Physical Education in the Elementary and Junior High School

Miss Goodwin

Professional preparation for students interested in teaching physical education. Covers growth patterns of junior high and elementary school children, program planning and problems in physical education at the junior high and elementary school level. Also presents an opportunity to teach games and creative rhythmic activities to students in the local public schools. Students interested in playground work, recreation and camp counseling should find the course valuable.

Three credit hours

### PE 353 Coaching Philosophy and Fundamentals

Mr. Costello

The purpose of the course is to prepare the coach for his opportunity as an educator, and to analyze and understand the fundamentals of individual and team play in those sports most likely to be offered at the secondary level: football, basketball, baseball, soccer, and cross country.

Three credit hours

### PE 354 Program Planning in Physical Education

Miss Fitz

Trends in the planning of programs. Criteria for selecting the activities. Programs for special occasions. Activity preferences of various age levels. Opportunity to work out programs with laboratory school students.

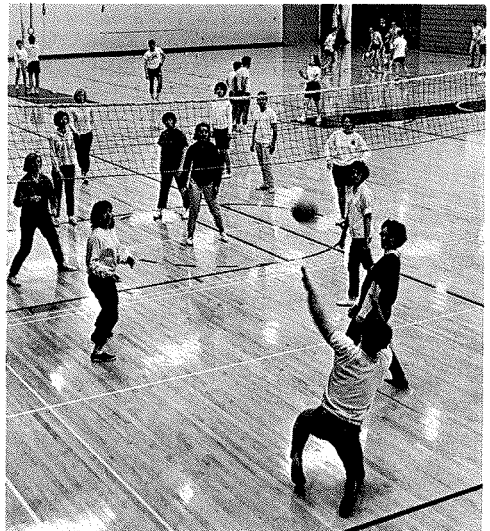
Three credit hours

### PE 451 Organization and Administration of Physical Education

Mr. Costello

Professional preparation for students interested in physical education. Covers the organization and administration of the required physical education program, intramural offerings, and interscholastic program.

Three credit hours



# Industrial Arts

Professors Mitchell, Monteleone; Associate Professors Berry, Greer; Mr. Carter, Mr. Warren

## IA 103 Introduction to Technology

Mr. Monteleone, Mr. Carter

An introductory study of industry and technology and their impact on our culture. Emphasis on the role of industrial arts in developing an understanding of the basic concepts and functions of the manufacturing, construction, power and transportation, electrical-electronics, visual communications, and service industries. Research, individual and team problems, and activities. Required of all entering department majors.

Three credit hours

## IA 104 Graphics I

Mr. Greer

An introduction to the language of industry, its techniques and interpretations. Involves sketching, lettering, use of instruments, theory of shape and size description, geometric constructions, revolution, primary and secondary auxiliaries, orthographic and pictorial projections.

Two credit hours

## IA 150 Graphic Arts I

Mr. Berry

Introduction to the graphic arts industries and technology. Designing, composing, reproducing and assembling printed materials, utilizing commercial printing, duplication and art techniques. Emphasis on letterpress, rubber stamp making, and direct-image offset reproduction.

Classroom and lab. Two credit hours

## IA 151 Crafts Industries I

Mr. Monteleone

An introductory study of those industries concerned with the manufacture of products from ceramic material, including clay, cement, glass, enamels, plastics, leather, caning and weaving materials; also artistic treatment of wood and metal, as in carving and tooling. Individual activities and problem solving.

Classroom and lab. Two credit hours

## IA 152 Graphics II

Mr. Greer

Graphics for the machine and tool manufacturing industries. Includes intersections, developments involving triangulation. Application of the elements of drawing machine parts, threads, fasteners, gears and cams to detail and assembly drawings. Tolerances and related shop processes examined. Experiences in inking, tracing, and printmaking. Prerequisite: IA 104.

Two credit hours

## IA 204 Graphics III

Mr. Greer

Graphics for the construction industries. Includes architectural designing, activity analysis, planning and execution of residential plans. Standard details of construction, printreading, codes, plans, specifications, schedules and cost analysis. Prerequisite: IA 104.

Two credit hours

## IA 205 Wood Technology I

Mr. Warren

A study of the wood manufacturing industries and technology. Introduction to the concepts of designing, planning, fabricating, finishing, and distribution as they pertain to these industries. Selection, use and care of equipment. Safety practices.

Classroom and lab. Three credit hours

## IA 206 Metal Technology I

Mr. Berry

A study of metal manufacturing industries and technology. Introduction to the concepts of designing, planning, fabricating, finishing, and distribution as they pertain to these industries. Selection, use, and care of equipment. Safety practices.

Classroom and lab. Three credit hours

## IA 207 Power and Transportation I

Mr. Carter

A study of those industries concerned with power, its sources, generation, transmission and utilization. Analysis of the design and construction of devices involving natural, thermal, and electrical power. Basic principles of internal combustion and their application in power plants. Emphasis on small engines, their construction, maintenance and repair.

Classroom and lab. Three credit hours

## IA 208 Electronics I

Mr. Monteleone

A study of the electrical industries with emphasis upon electrical theory, AC and DC generation and distribution. Applications in lighting, signal devices, heating, power and control devices. Testing and service equipment and procedures.

Classroom and lab. Three credit hours



#### IA 305 Wood Technology II

Mr. Warren

A study of the construction industries including construction principles; layout, foundations, framing, sheathing, and finish. Surveying, plot planning, and earth moving principles considered. Learning activities centered around scaled structures. Group and individual problems. Prerequisite: IA 205.

Classroom and lab. Three credit hours

#### IA 306 Metal Technology II

Mr. Berry

Metal industries concerned with sheet metal fabrication, electric and gas welding, and machining techniques. Consideration is given to plumbing as it pertains to the construction industries. Individual and group problems. Laboratory and maintenance practices. Prerequisite: IA 206.

Classroom and lab. Three credit hours

#### IA 307 Power and Transportation II

Mr. Carter

A study of power and transportation industries and their devices, equipment, and materials. Emphasis is placed upon methods and means of land, sea, and air travel and transport. Operation, maintenance and repair included. Prerequisite: IA 207.

Classroom and lab. Three credit hours

#### IA 308 Electronics II

Mr. Monteleone

A study of the electronics industry with emphasis upon vacuum tubes and their application to radio and audio frequency circuits. Wave propagation, transmission lines and antennas also considered. Prerequisite: IA 208.

Classroom and lab. Three credit hours

#### IA 309 Graphic Arts II

Mr. Berry

A study of those industries utilizing photo-offset lithography with emphasis upon camera work, stripping, plate-making, and presswork. Line and display composition and reproduction, screen process printing and binding techniques are also included. Prerequisite: IA 150.

Classroom and lab. Two credit hours

#### IA 350 Arts and Crafts

Mr. Monteleone

The utilization of information and experience in crafts activities to enrich classroom teaching. Crafts for summer counseling, club or community programs, or for recreational interests or needs. Non-majors only.

Two credit hours

## INDUSTRIAL ARTS

### IA 351 Industrial Arts for the Elementary School

Mr. Mitchell

The role of industrial arts in the elementary school. Activities and projects correlating with unit teaching as they enrich the general curriculum. Study of correct material and tool usage, with special emphasis upon safe practices. Non-majors only.

Three credit hours

### IA 410 Wood Technology III

Mr. Warren

Production and wood manufacturing problems including jigs, fixtures, special machine operations, and newer finishing methods. Patternmaking and laminating are also included. Group and individual research assignments and related technical problems. Prerequisite: IA 305.

Classroom and lab. Three credit hours

### IA 411 Metal Technology III

Mr. Berry

The technology of metal machining, casting, metallurgy and metrology. Emphasis on process engineering and quality control. Individual and group activity. Prerequisite: IA 306.

Classroom and lab. Three credit hours

### IA 412 Power and Transportation III

Mr. Carter

A study of power and transportation industries with emphasis on automotive servicing, including diagnosis, maintenance, repair and testing. Opportunities for individual research and problem solving. Prerequisite: IA 307.

Classroom and lab. Three credit hours

### IA 413 Electronics III

Mr. Monteleone

Basics of semi-conductors with emphasis on their application in amplifiers, oscillators, power supplies, computers, indicating devices, and other electronic equipment. Prerequisite: IA 308.

Classroom and lab. Three credit hours

### IA 450 Graphics IV

Mr. Greer

Problems in graphic communication centered around the individual needs of students. Opportunities for experiences in descriptive geometry, industrial product design, topographical drawing, nomography and rendering, including architectural. Prerequisites: IA 104, 105, 106.

Two credit hours

### IA 451 Materials Testing

Mr. Warren

Industrial techniques involved in the analysis of the physical properties of materials and their utilization in the manufacturing and construction industries. Emphasis on research and experimentation. Individual and team activities. Prerequisites: IA 305, 306.

Classroom and lab. Two credit hours

### IA 452 Instrumentation

Mr. Monteleone

Introduction to the study of sensing devices and instruments necessary to observe and control both manufacturing processes and the performance of mechanical and electrical machinery. Emphasis on pressure in liquids, atmospheric pressure, temperature, indicating instruments, mechanical and electrical transducers, potentiometric devices and other monitoring instruments. Prerequisite: IA 308.

Classroom and lab. Two credit hours

### IA 453 Fluid Power

Mr. Carter

A study of fluids at work. Investigation of the theory and application of hydraulics and pneumatics in mechanics and industry. Design, construction and maintenance of fluid power devices and installations. Prerequisite: IA 307.

Classroom and lab. Two credit hours

### IA 454 Graphic Arts III

Mr. Berry

Experiences in photography, lithography, etching, hand bookbinding, die cutting, embossing and printing on materials with ink and other media. Individual and group activities and technical reports. Prerequisite: IA 309.

Classroom and lab. Two credit hours

### IA 455 Graphic Arts IV

Mr. Berry

The study of production problems in the graphic arts industries. Emphasis on graphic design, photographic screen stencils, and other graphic processes. Opportunities for individual experience and development. Prerequisite: IA 454.

Classroom and lab. Two credit hours

### IA 456 Crafts Industries II

Mr. Monteleone

Advanced study of the crafts industries with emphasis on the newer technologies. Examination of artistic crafts for leisure time activities and for adult programs. Individual and group research and problem solving. Prerequisite: IA 151.

Classroom and lab. Two credit hours

## INDUSTRIAL ARTS

### IA 457 Plastics Technology

Mr. Warren

Pattern and mold design and construction; thermo-forming injection-molding, reinforced plastics, blow molding, foam and plastisol forming. Theory and application of thermoplastic and thermo-set principles. Prerequisite: IA 410.

Classroom and lab. Two credit hours

### IA 458 Metal Technology IV

Mr. Berry

Investigation of special machining, fabrication, and metal finishing techniques. Numerical control, tungsten inert gas welding, tumbling, and electroplating are included. Individual and group research problems and activities. Prerequisite: IA 411.

Classroom and lab. Two credit hours

### IA 460 Modern Industry

Mr. Carter

Evolution and structure of modern American industry and its impact upon the social, economic, and cultural pattern. Personnel and management organization and control, industrial relations, production practices, and product distribution.

Three credit hours

### IA Ed 300 Analysis and Course Development

Mr. Berry

Curriculum construction in industrial arts based on an analysis of student interests and needs, curricular objectives, and instructional content. Techniques of course development, utilizing resource units, experience units, instructional units, and trade and job analysis are discussed and evaluated. Development of teaching units discussed. Specimen course of study required.

Three credit hours

### IA Ed 350 Methods and Materials of Instruction

Mr. Mitchell

Classroom and laboratory experiences involving the nature and direction of learning. Planning for effective teaching, preparation and use of audio-visual materials, devices and equipment. Planning and preparation of teaching units and lessons. Demonstration teaching and critiques. Orientation to student teaching. Prerequisites: Psy 200, IA Ed 300.

Four class hours, Three credit hours

### IA Ed 404 Seminar in Teaching

Mr. Mitchell

Investigation, discussion, and possible solutions to problems arising from student teaching experiences. Teacher certification; graduate education; professional and ethical procedures; and standards involved in securing and holding a teaching position. Prerequisite: Ed 402.

Two credit hours

### IA Ed 450 Laboratory Organization and Management

Mr. Mitchell

Basic principles of organizing and managing an industrial arts laboratory and program. Planning the school laboratory, selection and arrangement of equipment and organization for implementing a modern program of industrial arts. Safety principles are stressed. Prerequisite: Ed 402.

Three credit hours



# Mathematics

Professor Fish; Associate Professors Bennett, Estes; Assistant Professor Mary Peabody; Mr. Littlefield, Mr. Soychak.

## **Ms 100 Elements of Mathematics I**

A basic course emphasizing the structure of the number systems of whole numbers and positive rational numbers; fundamental notions of set theory; basic concepts of various numeration systems, nature of proof.

The Staff

Three credit hours

## **Ms 101 Elements of Mathematics II**

Continuance of the two-course sequence on the structure of the real number system and its subsystems; integers, negative rationals; rationals. Use of simple equations and inequalities, topics from elementary number theory to emphasize discovery and proof.

The Staff

Three credit hours

## **Ms 120 College Algebra**

A deeper study of the basic concepts of algebra necessary for more advanced work in mathematics.

Mr. Soychak

Three credit hours

## **Ms 121 College Trigonometry**

Study of the trigonometric functions with practical applications and the solving of triangles.

Mr. Soychak

Three credit hours

## **Ms 150 Analytic Geometry and Calculus**

Equations and graphs, differentiation and integration of polynomial functions, applications. Prerequisite: equivalent of Ms 120 and Ms 121.

Mr. Fish

Four credit hours

## **Ms 151 Analytic Geometry and Calculus II**

Conic sections, differentiation and integration of algebraic, trigonometric, logarithmic, and exponential functions, applications. Prerequisite: Ms 150 or consent of instructor.

Mr. Fish

Four credit hours

## **Ms 173 Logic and Sets**

A modern approach to selected topics in mathematics containing more depth in the areas of symbolic logic and theory of sets. A foundation course for many mathematical areas.

Miss Mary Peabody

Three credit hours

## **Ms 250 Analytic Geometry and Calculus III**

Polar coordinates, geometry of three dimensions, infinite series, partial differentiation, applications. Prerequisite: Ms 151 or consent of instructor.

Mr. Estes

Four credit hours

## **Ms 251 Calculus IV**

Multiple integrals in two and three dimensions and an introduction to ordinary differential equations, applications. Prerequisite: Ms 250.

Mr. Estes

Four credit hours

## **Ms 260-261 Probability and Statistics**

A two-semester sequence in probability and statistics. The first course is restricted to discrete sample spaces; the second to continuous sample spaces. Follows recommendations of CUPM, Mathematical Association of America. Prerequisite: Ms 151, Ms 173.

Mr. Fish

Six credit hours

(Three each semester)

## **Ms 272 Real Numbers**

Systematic and detailed construction of real number system and its subsystems. Prerequisite: Ms 173.

Mr. Bennett

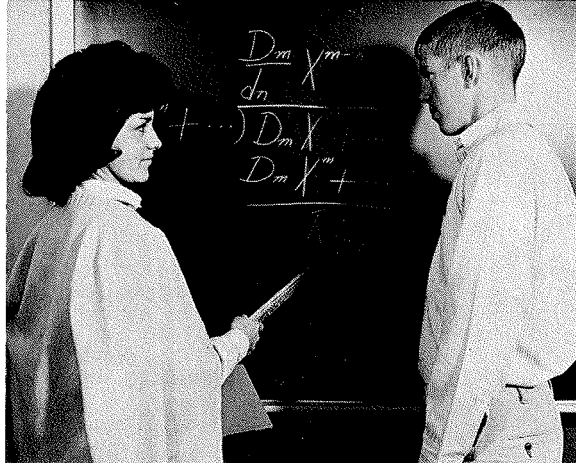
Three credit hours

## **Ms 310 Basic Concepts of Algebra**

A course as recommended by the Committee on the Undergraduate Program, Mathematical Association of America, to follow the two-course sequence on number systems; emphasis on generalization and abstraction, algebraic properties, linear equations and inequalities in two variables, quadratics, systems of equations and inequalities, modular arithmetic, group, field, complex numbers, functions. Prerequisite: Math 100 and 101.

Miss Mary Peabody

Three credit hours



### Ms 311 Informal Geometry

To provide the prospective elementary teacher with the common core of geometric knowledge; congruence, measurement, parallelism, and similarity; presented at first intuitively, then as part of a deductive system; applications. Follows recommendations of CUPM, Mathematical Association of America. Prerequisite: Math 100 and 101.

Miss Mary Peabody

Three credit hours

### Ms 320 Introduction to Statistics

Elementary statistics to provide sufficient terminology and technique for interpreting critically the statistical content in various fields and for performing fundamental statistical procedures.

Mr. Littlefield

Three credit hours

### Ms 350-351 Geometric Structures I and II

An introduction to the geometries that result from various postulate systems, such as the Euclidean, affine, non-Euclidean, and projective. Math 350 is a prerequisite for Math 351.

Mr. Estes

Six credit hours

(Three each semester)

### Ms 370 Abstract Algebra

A course developed around the following topics: notions of set theory, theorems on groups, rings, fields, structure of homomorphisms, linear equations, and the integral domain of polynomials over a particular field.

Mr. Soychak

Three credit hours

### Ms 371 Linear Algebra

An introduction to matrices and their applications in solving systems of linear equations.

Mr. Soychak

Three credit hours

### Ms Ed 312 Teaching Mathematics in the Junior-Senior High School

Teaching mathematics with the new approach at the secondary school level. Programs for teaching both the slow and advanced pupil. Study of current textbooks and experimental material in modern mathematics. Content as needed to provide orientation to topics commonly taught in grades 7 through 12.

Miss Mary Peabody

Three credit hours

### Ms 471 Foundations of Mathematics

A strongly historical treatment of fundamental concepts in geometric and algebraic systems. Use of deductive principles and axiomatic treatments in relation to such items as Peano postulates and algebraic structures, development of modern mathematics.

Mr. Bennett

Three credit hours

### Ms 473 History of Mathematics

A foundational development of the growth of mathematical ideas, including those of more recent times. Prerequisite: Ms 151 or consent of instructor.

Mr. Bennett

Three credit hours



# Music

Professor Bowder; Associate Professor Chamberland\*; Assistant Professor Heel;  
Mr. Cole

\* On leave of absence, 1966-67.

## FA 101 Music Appreciation and History

Mr. Cole

A survey of music from the Gregorian Chant to modern times, covering musical practices of the Renaissance, Baroque, Classical, Romantic, and Contemporary periods. Representative works by the outstanding composers of each period.

Three credit hours

## FA 201 Fundamentals of Music

Mr. Cole

A background study of concepts and skills essential to an intelligent reading of music. The development of natural musical abilities through participation in singing, rhythmic activities, and instrumental work. An appreciation of music through awareness of basic structures.

Two credit hours

## Mus 100 History of Music I

Mr. Chamberland

Medieval and Renaissance Periods: historical development and musical practices from the Gregorian chant and early polyphony through the culmination of the madrigal in England. Musical examples of outstanding composers are played, analyzed, and discussed.

Three credit hours

## Mus 101 History of Music II

Mr. Chamberland

Baroque Period: continuation of Mus 100, from the establishment of opera in Italy and the rise of instrumental music, to the culmination of polyphony in the works of J. S. Bach.

Three credit hours

## Mus 102 Theory I

Mr. Bowder

Major and minor scales; intervals, triads and chord connection; cadences; harmonization of soprano and bass lines utilizing primary triads; related dictation and keyboard application.

Three credit hours

## Mus 103 Theory II

Mr. Bowder

Triads in first and second inversion; specific uses of the six-four chord; secondary triads in fundamental position and inversion; modulation; non-harmonic tones (passing, auxiliary, appoggiatura, suspension, and anticipation); dominant seventh chord (root position inversion, regular and irregular resolutions); related dictation and keyboard application. Prerequisite: Mus. 102.

Three credit hours

## Mus 104,105, 206, 207, 306, 307, 402 Applied Music

The Staff

May be taken in piano, voice, or any orchestra or band instrument. One lesson per week in the major performance area (3 credits). Also one half-hour lesson in the minor performance area (1 credit) in fulfillment of applied music requirements. Special fee.

Four credit hours

## Mus 106, 107, 208, 209, 308, 309, 403 Vocal Ensemble

Mr. Chamberland

Emphasizing singing technique and interpretation and an exploration of choral literature of various periods and styles. Principles of choral training are exemplified. The repertoire is varied from year to year so that the course covers a considerable range during a given student's attendance.

One-half credit hour

## Mus 108, 109, 210, 211, 310,311, 404 Recital Class

Mr. Chamberland

Performance in major field, stage procedure, and evaluation of performances.

One-half credit hour

## Mus 200 History of Music III

Mr. Chamberland

Classical and Romantic periods: historical development and musical practices from the establishment of the sonata, string quartet, and symphony, through program music, music-drama, and the rise of nationalism in music. Representative works of outstanding composers are played, analyzed, and discussed.

Three credit hours

## Mus 201 History of Music IV

Mr. Chamberland

Contemporary Period: continuation of Mus 200, from Impressionism to recent tendencies. Melodic, harmonic, rhythmic and structural features of 20th-century American and European music and their relationship to tradition.

Three credit hours

**Mus 202 Theory III**

Chords of the leading-tone seventh and diminished seventh-root position and inversions (regular and irregular resolutions); modulation; unfigured bass; secondary seventh chords of related keys; expansion of non-harmonic tones; chorales and their harmonization; related dictation and keyboard application. Prerequisite: Mus 103.

Mr. Bowder

Three credit hours

**Mus 203 Theory IV**

Chords of the ninth, eleventh, and thirteenth; altered chords; Neapolitan sixth; augmented sixth chord and inversions; general chromatic alternations; modern harmony; related dictation and keyboard application. Prerequisite: Mus 202.

Mr. Bowder

Three credit hours

**Mus 220 Class Piano**

Practical class piano for the elementary teacher with little or no piano background. Course covers note reading, scales, accompaniment of simple songs, transposition, and sightreading.

Mr. Cole

Two credit hours

**Mus 302 Instrumental Conducting**

Organization, training, and directing of bands and orchestras. Practical conducting experiences, score reading, basic beat patterns, and interpretation.

Mr. Bowder

Two credit hours

**Mus 303 Vocal Conducting**

Organization, training, and directing of choruses and glee clubs in high schools and junior high schools. Study and practice in rehearsal technique, problems of diction, and emphasis on textual delivery.

Mr. Chamberland

Two credit hours

**Mus 400 Orchestration**

A study of the nature of the various instruments. Practice in scoring for instrumental combinations, orchestra, and band.

Mr. Bowder

Three credit hours

**Mus Ed 200 Woodwind Class**

Methods of teaching woodwind instruments; practical experience on various woodwinds; and elements of transposition.

Mr. Bowder

Two credit hours

**Mus Ed 201 Brass Class**

Methods of teaching brass instruments; practical experience on various brasses; and elements of transposition.

Mr. Bowder

Two credit hours

**Mus Ed 300 Elementary Music Methods and Materials**

Study of approved methods and materials of music education in the elementary school. Discussion and actual teaching in the classroom.

Miss Heel

Three credit hours

**Mus Ed 301 Secondary Music Methods and Materials**

Study of approved methods and materials of music education in junior and senior high schools. Continuation of Mus Ed 300.

Miss Heel

Three credit hours

**Mus Ed 302 String Class**

Class methods and materials in teaching violin. Fundamentals of violin, including bowing, tone production, intonation, and fingering techniques extended into third position.

Miss Heel

Two credit hours

**Mus Ed 303 String Class**

String ensemble methods and materials for beginning strings. Fundamentals of viola, cello, and string bass. Rudiments of fingering, bowing, and tone production.

Miss Heel

Two credit hours

**Mus Ed 320 Rhythmic Activities in the Elementary School**

This course follows the sequence of rhythmic activities from the basic fundamental movements of the primary grades to the more intricate patterns of instruments and folk dancing used in upper elementary. Stresses active participation in games, dances and creative phases. Previous music experience not necessary.

Miss Heel

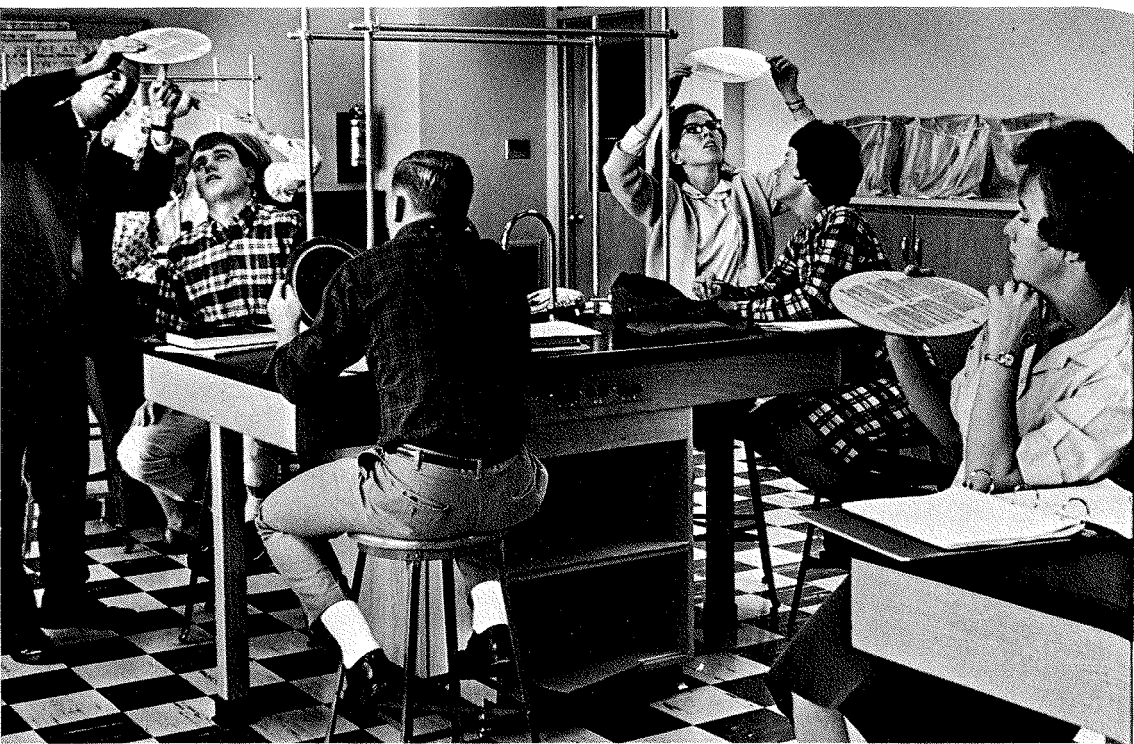
Two credit hours

**Mus Ed 400 Music Administration and Supervision**

Designed to present an integrated picture of philosophies of administration, and to resolve problems encountered in student teaching. Also to present new viewpoints based on discussion of text and individual problems.

Miss Heel

Three credit hours



## Science

Professors Kerr, Neuberger\*, Associate Professors Grass, Whitten, M.; Assistant Professors Ayers, Barker, G., Hare\*, Miller, Riciputi, Vaughan.

\* On leave of absence, 1966-67 \* 1967-1968

### Sci 100-101 Physical Science

The Staff

A two-semester course designed to educate non-scientists in the principles and methods of physical science. Selected topics in physics, chemistry, geology, meteorology, and astronomy. Basic principles and concepts covering conservation of charge, energy, mass and momentum, fields (electrical, gravitational and magnetic), waves, the molecular structure of matter, and atomic structure. Related fundamentals of chemistry are considered; introduction to organic chemistry, with particular emphasis on the electronic nature of chemical phenomena. Geology, meteorology, and astronomy are also studied as interrelated disciplines. Laboratory experimentation stresses importance of first-hand experience in substantiating physical principles. Four class-hours weekly; two hours of lecture and two of laboratory.

Six credit hours (Three credits each semester)

### Sci 100a Concepts of Physical Science

Mr. Grass

A one-semester course for art, music, and industrial arts majors. Aims at developing the basic content of the major scientific disciplines together with their underlying physical principles: astronomy (concepts of space); geology (concepts of time and change); chemistry (concepts of matter); physics (concepts of energy and its transformations). Consideration also given to the methods of science and to the impact of science on society.

Three credit hours

200

### Sci 200-201 Biological Science

The Staff

An introductory course in biology, this one-year offering to sophomores fulfills the general education requirement and serves as a prerequisite for advanced work in the field. (Sci 200,

Revised by Dr. Kerr

## SCIENCE

Fall Semester) deals with modern concepts of plant structure and plant functions, together with the interrelationship and interdependencies of plants with their environment. (Sci 201, Spring Semester) covers modern concepts of animal structures and functions, including their interrelationships and interdependencies with the biotic and physical environment. In both semesters the student explores the dynamic and complex cell, structurally as well as functionally; tissues and organs as levels of biological organizations; and finally, the basic principles of genetics, evolution, and ecology. Two one-hour lectures and one two-hour laboratory period weekly.

~~34~~ credit hours (Three credits each semester)

### Sci 200a Concepts of Biological Science

Mr. Vaughan

A one semester course for art, music and industrial arts majors which serves to introduce the problems of function and structure in living systems. Principal stress is laid on the fundamentals of animal physiology and plant life. The course includes lectures, laboratory experiences, and individual projects and is required of all students in Special Education.

Three credit hours

### Sci 250 Vascular Botany

Mr. George Barker

Study of form and structure as related to function, life cycles, economic uses, and ecology of vascular plants. Some work in collecting, identifying, and preserving of specimens. ~~Pre-requisite: Sci 200-201.~~

Four credit hours

### Sci 251 Non-vascular Botany

Mr. George Barker

Study of form and structure as related to function, life cycles, economic uses, and ecology of non-vascular plants. Some work in the collecting, identifying and preserving of specimens. ~~Prerequisite: Sci 200-201.~~

Four credit hours

### Sci 352 Invertebrate Zoology

Mr. Riciputi

A survey of the invertebrates with emphasis on morphology and relationships of representative types. ~~Prerequisite: Sci 200-201.~~

Four credit hours

### Sci 353 Vertebrate Zoology

Mr. Riciputi

The form, structure, and life processes of the major groups of vertebrates. The areas are considered in respect to the animal's adaptation to his environment. Field trips are taken to various habitats which afford first-hand ecological observations and also supply living material for laboratory investigation. ~~Prerequisite: Sci 200-201.~~

Four credit hours

### Sci 355 Natural Science

Mr. George Barker

A course primarily for teachers in the elementary school. Includes a variety of topics in the area of biology: insect metamorphosis, bird migration, fossil records, animal communities, plant communities, animal behavior, reproduction, survival foods, fungi and man, and related subjects. Emphasis is on obtaining an understanding and appreciation of the flora and fauna of New England.

Three credit hours

### Sci 356 Physical Geology

Mr. Miller

The study and observation of the earth through the interpretation of the work of streams, glaciers, volcanoes, and other geological agents. The identification of rocks and minerals is included.

Three credit hours

### Sci 357 Historical Geology

Mr. Miller

Study of the earth's history in terms of physical, chemical, and biological change, from its origin to the present time. Focus upon the methods of determining chronology and conditions through fossils and structural characteristics.

Three credit hours

### Sci 358 Ecology

Mr. Miller

Basic relationships of plants and animals to their physical and biotic environments. The study of biomes, habitats, and communities are interpreted in varying stages of succession and stratification. An emphasis is placed on species dynamics and population changes.

Three credit hours

### Sci 359 Conservation of Natural Resources

Mr. Miller

The study of the better-known practices for the utilization of our natural resources.

## SCIENCE

Topics covered in the course include mineral resources, soils, forests, water, wild life, man himself, and recreation.

Three credit hours

### Sci ~~361-362~~ Physics I and II

Mr. Grass

A laboratory course in which selected experiments in physics are used to demonstrate physical principles and make possible a deeper study of physical phenomena. Lectures, demonstrations, problem solving, films and filmstrips are employed to develop an understanding of mechanics, sound, optics, heat, electricity, and ~~atomic physics~~ *modern physics*

Eight credit hours (four each semester)

### Sci 363 Astronomy

Mr. Ayers

A descriptive course in astronomy, surveying the solar system and beyond. Students utilize the 4-inch refracting telescope to observe the nearer planets, the solar disk, features of the moon, and multiple stars. Films, slides, filmstrips, and models illustrate and demonstrate celestial phenomena.

Three credit hours

### Sci ~~364-365~~ General Chemistry I and II

Mr. Maurice Whitten

A survey of the fundamental concepts and theories of chemistry. Atomic structure, periodic classification, chemical bonding, molecular structure, ionic reactions, and the chemical equilibria are discussed. Three lectures, one three-hour lab. per week. ~~Prerequisite: Sci 100-101 or permission of instructor.~~

Eight credit hours (four per semester)

### Sci 366 History of Science

Mr. Maurice Whitten

A comprehensive survey of the historical development of science from earliest records to the present. Attention is given to the nature of science, methods of scientific discovery, the relation of science to technology, the implications of both for society. Prerequisites: Sci 100-101, Sci 200-~~201~~ and six additional hours of science completed or taken concurrently. Grades of C or better in all science courses completed.

Three credit hours

### Sci 367 Anatomy and Physiology

Mr. Vaughan

A study of the relationships of the structure and function of the human organism; focus on the mechanisms included in the following systems: muscular, nervous, circulatory, respiratory, excretory, endocrine, and reproductive. Permission of instructor required.

Three credit hours

### Sci 368 Meteorology

Mr. Hare

A basic introduction to meteorological phenomena: the atmosphere; its characteristics, composition and structure; cloud types, circulation of air; currents and winds; air masses. Analysis of weather reports, weather forecasting, and weather maps.

Three credit hours

### Sci 369 Microbiology

Mr. Riciputi

A study of the anatomy and physiology of microorganisms. The use and experience of microtechniques are important parts of the course. Prerequisites: Sci 200, Sci 201.

Four credit hours

### Sci 370 Ornithology

Mr. Riciputi

The basic biology of birds, their life history, migration and economic importance with special reference to those of eastern North America.

Three credit hours

### Sci 372 Ichthyology

Mr. Riciputi

The structure, origin, evolution, natural history, classification, and zoogeography of fishes, with particular emphasis on species found in the northeastern United States. Prerequisites:

(Sci 200, 201, 353)

Four credit hours

### Sci 373 Mineralogy

Mr. Miller

An introduction to descriptive crystallography and study of the physical properties and chemical structures of common rock-forming minerals. Field trips and laboratory analysis are an important part of the course.

Three credit hours

### Sci 380 Organic Chemistry

Mr. Maurice Whitten

A study of the nomenclature, classification, preparation, structure, properties and uses of aliphatic and aromatic compounds. Three lectures, one four hour lab. per week. Prerequisite: Sci ~~364-365~~ with grade of C as minimum.

Four credit hours

**Sci 400 Biological Techniques**

Mr. Vaughan

A course designed primarily for students preparing to teach biology in the secondary school. Emphasis is placed on advances in the secondary biology curricula, notably the Biological Sciences Curriculum Study approaches. A major portion of the course work is devoted to the laboratory exercises and techniques which typify the investigative approach of these curricula. Recommended for juniors and seniors.

Three credit hours

**Sci 420 Embryology**

Mr. Vaughan

A study of the development of animals. Topics include an analysis of cell division, gametogenesis, organogenesis, growth and differentiation. An integration of the experimental physiological approach with the descriptive morphological approach is emphasized. Prerequisite: Sci 353.

Three credit hours

**Sci 450 Genetics**

Mr. Vaughan

A study of the principles of heredity in plants and animals, with attention to recent advances in gene and chromosome research. The course includes consideration of current literature; individual student projects. Prerequisites: Sci 100-101, Sci 200-201.

Three credit hours

**Sci 451 Evolution**

Mr. Vaughan

A study of the evidences for, and the mechanisms of, organic evolution based essentially upon comparative anatomy, genetics, ecology, and recent studies in animal speciation. Prerequisites: Sci 100-101, Sci 200-201. Suggested previous studies: Sci 367, Sci 352, Sci 353.

Three credit hours

**Sci Ed 360 Methods and Problems of Teaching Science in Grades 7-12**

Mrs. Kerr

Reading, discussions, experimentation, field trips, and audio-visual techniques are presented and evaluated as an integral part of this course. Emphasis is placed on concept - formation in science consistent with patterns of child growth and development.

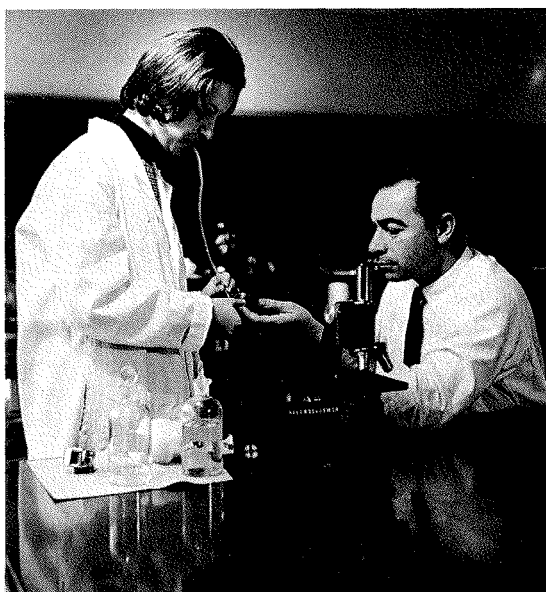
Three credit hours

**Conservation Workshop**

Through the joint sponsorship of Gorham State College, Farmington State College, the University of Maine, the State Natural Resources Agencies, and the State Department of Education, a Conservation Workshop is conducted each summer at Bryant Pond, Maine.

Courses in conservation education, the natural history of inland Maine, and other special courses are given by the College faculty over a period of approximately eight weeks, in three sessions of three weeks each.

Graduate and undergraduate credit for Workshop courses is offered to all matriculated students. A free descriptive brochure giving detailed information is available from the College on request.



# Social Science

Professors Emerson, York; Associate Professors Barker, P., Dickey, Lacognata, Whitten, J., Wood, Young; Assistant Professors Hodges, Schleh, Ventresco, Witherill; Mr. Moberg.

## SS 100 History of Civilization I

Mr. Ventresco

An introduction to the heritage of mankind, from prehistoric times through the discovery and settlement of the New World. Political, intellectual, scientific, and aesthetic modes of life historically viewed. Divergent concepts of the theory and writing of history as a systematic explanation of past events.

Three credit hours

## SS 101 Modern Civilization

Mrs. Anne Young, Mr. Ventresco

A continuation of SS 100. Historical development of the characteristic features of the modern period; analysis of world issues; focus on the roles of the great European powers, from the seventeenth to the twentieth century.

Three credit hours

## SS 200 United States History to 1877

Mr. Emerson, Miss Wood

A basic survey and introduction to the field of American History. The political, social, and economic development of the United States from 1789 to 1877.

Three credit hours

## SS 201 United States History Since 1877

Mr. Emerson, Miss Wood

This course is a continuation of SS 200. A survey of American political, social and economic development since 1877.

Three credit hours

## SS 202 Principles of Geography

Mr. Hodges, Mr. Moberg

A basic course surveying man's world habitat. A study of the tools of geography; earth relationships; the atmosphere and the climatic regions of the world; landforms and their formation; the earth's waters and soils . . . their formation and distribution; natural vegetation; animal life. An inquiry into world population and the world pattern of trade routes.

Three credit hours

## SS 203 Sociology

Mr. Paul Barker, Mr. Lacognata

A general introduction to the nature of society; a study of social institutions, cultural and physical anthropology, and introductory archaeology. Recent movements, revolutions, and social changes. Emphasis is placed particularly on a study of social problems embracing the school, home, and community.

Three credit hours

## SS 204 American Government

Mr. Schleh

The theory, organization, and practice of American government, especially the relationships between the federate system and the state, the individual citizen, and foreign nations. Unifying concepts include the nature of political power, federalism, ideologies, the formation of democratic character, and the role of American Government in the world community of nations. In all phases the approach is directed to government as a policy-related social science.

Three credit hours

## SS 220 Personal and Social Economics

Mr. Witherill

A course designed to help students make decisions and judgments pertaining to personal finances. Material is studied showing how personal economic decisions relate to society and how government social programs affect the economic life of the individual. Topics studied include: Incomes and Occupations, Budgeting; Insurance; Social Security Programs, Investments and Estate Planning.

Three credit hours

## SS 300 Economics

Mr. Witherill

A one semester course designed to give a basic understanding of the economic system. Deals with the economy as a whole rather than with problems of the individual firm, and gives the student a basis for knowing how economic events affect the national economy. Topics covered include a study of the Economic System, Money and Banking, Production, Income, Employment, Economic Cycles, and International Trade.

Three credit hours

**SS 301 Maine History**

Mr. York

A survey of the state's political, social, and economic history from colonial days to the present. Among topics covered are exploration and settlement, Indians and the wars, transportation, religion, Maine in America's wars, outstanding state personalities, and industrial development in the nineteenth and twentieth centuries.

Two credit hours

**SS 302 Current Economic Problems**

Mr. Witherill

A course following Economics to apply basic economic principles to economic problems of a contemporary nature. Current literature including periodicals and daily newspapers supplement text materials. Areas of discussion include Problems of Employment, Automation, Poverty, Agriculture, Medicare, and Fair Trade. Other topics include European Common Markets, Aid to Foreign Countries and the Population Explosion. Prerequisite: SS 300.

Three credit hours

**SS 350 World Geography**

Mr. Moberg

A contemporary survey of world geography. Geophysical and geographical concepts of continents and nations as a basis for understanding world affairs and developing an awareness of geography. Prerequisite: SS 202.

Three credit hours

**SS 351 Geography of Asia**

Mr. Hodges

An intensive geographic study of each of the countries of the world's largest continent. Special attention given to nations created since World War II. The so-called trouble zones: Middle East, Russian Far East, Korea, Southeast Asia, and the two Chinas. Prerequisite: SS 202.

Three credit hours

**SS 352 Geography of Latin America**

Mr. Moberg

An intensive study of the countries and major islands south of the Rio Grande. Sustained attention is given to the economic and political relations of Latin America with the United States. Focus also on Latin American culture. Prerequisite: SS 202.

Three credit hours

**SS 353 Geography of North America**

Mr. Moberg

An intensive regional study of North America: climate, topography, soils, vegetation, resources, agriculture, industry, transportation, and population. Regional interdependence and industrial-agrarian relations. Prerequisite: SS 202.

Three credit hours

**SS 354 Diplomatic History of the United States I**

Miss Wood

The course covers the development of key United States foreign policies from the Revolution to the Spanish American War. Prerequisite: SS 200.

Three credit hours

**SS 355 Diplomatic History of the United States II**

Miss Wood

The chief emphasis is placed on the causes and results of World Wars I and II, the nature of the Cold War, and the character of our present commitment in Asia. Prerequisite: SS 201.

Three credit hours

**SS 356 History of Russia**

Mrs. Anne Young

Political, social, cultural and economic history of the Russian people, with emphasis on the period since 1825. The first half of the course surveys geographic backgrounds, the influence of Byzantine civilization, the impact of invasions, and the development of Russia's unique social, cultural and political institutions. Remainder of course is devoted to the pressures for reform and weaknesses in imperial Russia, the Communist Revolution, and the history of the Communist state since 1917. Prerequisite: SS 101 or equivalent.

Three credit hours

**SS 357 History of the West**

Miss Wood

The advance of the American frontier from the Atlantic seaboard to the last frontier on the Great Plains. Challenges faced by the pioneers and their adjustment to them. Problems of the miner, the cowboy, the shepherd, and the farmer. Changes in transportation and shifts in government policy affecting the West. Prerequisite: SS 200 or SS 201.

Three credit hours



## SOCIAL SCIENCE

### SS 358 The Bible

Miss Dickey

A study of portions of both the Old and the New Testaments. Exploration of historical background, literary qualities, authorship, and materials available for scholarly research.

Three credit hours

### SS 362 Geography of Europe

Mr. Moberg

A detailed analysis of (1) the continent as a whole — its history, climate, topography, population, natural vegetation, and soils; (2) a study of individual countries on the continent, with special attention to the three great powers — Russia, Great Britain, and France. Prerequisite: SS 202.

Three credit hours

### SS 363 Twentieth Century United States

Mr. Emerson

A selective examination of four periods — the Progressive Era, the 1920's, the New Deal period, and the post-war years — built around the theme of American adjustment to an urban-industrial society. Although primarily historical in approach, the course attempts to integrate the findings of the social sciences with national literary and artistic expression. Prerequisite: SS 201.

Three credit hours

### SS 364 Civil War and Reconstruction

Mr. Emerson

An examination in depth of the political, economic, diplomatic, and military history of the period 1850-1877. Particular stress is laid upon the nature of the Old South and upon causation and interpretation with reference to the Civil War and its aftermath. Prerequisite: SS 200.

Three credit hours

### SS 365 Social and Cultural History of the United States to 1865

Miss Wood

The development of American social life and culture. A selective examination of the nation's major social institutions; of the family, the economy, and the church; of American literature and the arts. Special emphasis on religious developments in both the colonial and national periods. Prerequisite: SS 200 or SS 201.

Three credit hours

### SS 366 Social and Cultural History of the United States Since 1865

Mr. Emerson

An intensive inquiry into the ways in which urbanization and industrialization have affected our institutions, manners, and morals. Main currents of American thought since 1865. SS 366 is related to, but is not a continuation of, SS 365. Prerequisite: SS 200, SS 201.

Three credit hours

### SS 367 Colonial History of the United States

Miss Wood

The political, social, and economic development of the American colonies, from the days of exploration and settlement to the American Revolution. Changing British imperial policy and the causes of the American Revolution. Prerequisite: SS 200.

Three credit hours

### SS 368 Seminar in American Character

Mr. Emerson

A course focusing attention on a particular problem of historical analysis: the interpretation and determination of American national character from the beginnings to the present. The writings of Tocqueville, Bryce, Adams, Turner, Siegfried, Potter, Riesman and others are considered. Prerequisite: SS 200, SS 201.

Three credit hours

### SS 375 Modern Africa

Mr. Schleh

The first half of the course is a survey of African history from earliest times through World War II. Examines specialized topics such as slave trade and exploration as well as regions and countries. The second half contains a more concentrated examination of post-World War II Africa, the independence movement, Pan-Africanism, and Africa's role in world affairs. Prerequisite: SS 101.

Three credit hours

### SS 380 Social Problems

Mr. Lacognata

The course contains descriptions and analyses of socially-disapproved behavior. Sub-areas include education, family, mental illness, sexual deviation, and illegitimacy. Cross-cultural comparisons in sub-areas are included. Prerequisite: SS 203 or permission of the instructor.

Three credit hours

**SS 381 Minority Peoples**

Mr. Lacognata

Sociology of majority-minority relations in contemporary, particularly American, society. Attention is given to specific ethnic, religious, and racial minorities in terms of prejudice and discrimination. Prerequisite: SS 203 or permission of the instructor.

Three credit hours

**SS 383 Dynamics of Population**

Mr. Lacognata

The course contains general demographic theories, especially those concerning population growth. Population distribution and density, age and sex, and ethnic composition. Emphasis on fertility, mortality, and migration and their influences on population change. Prerequisite: SS 203 or permission of the instructor.

Three credit hours

**SS 387 French Revolution and Napoleon**

Mrs. Anne Young

The course takes the French Revolution as a climax of major intellectual, political, and social trends in eighteenth-century Europe. Thorough coverage is given to the Enlightenment, the influence of the American Revolution, the French Revolution itself and its impact outside France. The Napoleonic era is handled as the culminating phase of the Revolution and as a major influence on nineteenth-century Europe. Prerequisite: SS 101 or equivalent.

Three credit hours

**SS 388 Europe and the World in the 19th Century**

Mrs. Anne Young

An intensive survey of Europe's political changes, the impact of nationalism, and the economic, social, and intellectual results of the Industrial Revolution. The spread of European culture and technology to the non-European world and the causes and effects of imperialism are studied. Prerequisite: SS 101 or equivalent.

Three credit hours

**SS 392 Twentieth Century Europe**

Mrs. Anne Young

An intensive survey of European developments in the twentieth century stressing intellectual, economic, psychological, social and political factors. Europe's changing role; the impact of World Wars I and II; the meaning of Facsim, Nazism, and Soviet Communism; and problems facing Europe in today's world are considered. Prerequisite: SS 101 or equivalent.

Three credit hours

**SS 400 History of England**

Mr. Ventresco

A survey of England from Anglo-Saxon times to the beginning of the twentieth century, with emphasis on the nature of English monarchy, the development of political institutions, and evolving constitutionalism. Particular attention is given to broad movements such as the Reformation, the Industrial Revolution, and Imperialism.

Three credit hours

**SS 425 Canadian-American Relations**

Mr. James Whitten

Selected topics germane to the historical, cultural, economic, geographic, and political interactions of Canada with the United States. Prerequisite: SS 200, SS 201.

Three credit hours

**SS 450 Archaeology**

Mr. Paul Barker

The study, preparation and display of specimens; cataloging of archaeological materials. Emphasis on the history and techniques of excavation, the nature and description of sites, especially those excavated by the students during actual field work. The study of the classical ruins and cultures of antiquity. Research conducted on exhibited specimens in the museum and files of artifacts, slides, and published field reports of Gorham State College expeditions are utilized. Prerequisite: SS 203.

Three credit hours

**SS 451 Marriage**

Mr. Paul Barker

The physical, social, psychological and religious factors pertaining to marital adjustment are analyzed. Slides, lectures, medical-school film, symposia and discussions are utilized. Students are expected to become familiar with a wide variety of marriage literature through library reading. Prerequisite: SS 203.

Three credit hours

**SS 452 Criminology**

Mr. Paul Barker

The study of penology, crime and its causes, and the interrelationship of crime and contemporary American culture. The personality and behavior of pre-delinquent types most frequently encountered by teachers are studied in depth. Visits conducted to various corrective and preventive institutions. Prerequisite: SS 203.

Three credit hours

## SOCIAL SCIENCE

### SS 453 Political Thought

Mr. James Whitten

Introduction to classical political philosophy. Emphasis on the 19th- and 20th-century development of liberalism, democracy, social Darwinism, nationalism, socialism, and the total-state claims of fascism and communism. Prerequisite: SS 204.

Three credit hours

### SS 454 International Relations

Mr. Schleh

Principles and practices involved in the transactions of governments, international organizations, groups and peoples. The course stresses the agencies and policies that shape the destinies of commerce, diplomacy, power, sovereignty, war and peace. Permission of instructor required.

Three credit hours

### SS 455 Political Geography

Mr. Hodges

A study of the geography of the major political units of the world, with special reference to such factors as location, size, shape, natural resources, population, boundaries, ethnographic structure, language, religion, type of government, colonies and colonial problems. Special emphasis is given to the so-called strategic areas of the world. Prerequisite: SS 202.

Three credit hours

### SS 456 Economic Geography

Mr. Hodges

An inquiry into the economic activities of man in relation to his physical background. Focuses on agriculture, mining, forests, and industry; the economic significance of the sea and the geographic aspects of transportation and commerce. Prerequisite: SS 202.

Three credit hours

### SS 457 Anthropology

Mr. Paul Barker

A study of both the physical and cultural backgrounds of man, including comparative studies of characteristics of contemporary peoples. Students utilize extensively the collections in the museum. Laboratory work conducted. Prehistoric cultures are reconstructed from the files of artifacts in the laboratory. Participation in research and the publication of scientific monographs. An approach to understanding social institutions and the content of culture. Prerequisite: SS 203.

Three credit hours

### SS 458 Modern European Governments

Mr. Schleh

Emphasis on the current forms of government of the Soviet Union, West Germany, France and the United Kingdom including consideration of twentieth century developments of these forms. Use of this knowledge in examining current domestic and foreign policies of these countries. Prerequisite: SS 101.

Three credit hours

### SS 459 Geography of Africa

Mr. Moberg

An intensive geographic study of the emergence of the nations of the once "Dark Continent" as well as the older, established powers such as South Africa, Egypt, and Ethiopia. Attention is given to areas still under colonialism. Prerequisite: SS 202.

Three credit hours

### SS 460 History of Canada

Mr. James Whitten

The course is concerned with the development of Canada as a settlement, a colony and a nation. The significance of Canada as a nation and as a neighbor, its problems and prospects as a growing power are examined. Canada's cultural heritage sets the tone of the study. Prerequisite: SS 200.

Three credit hours

### SS 499 Historiography

The Staff

A survey of the principal schools of historical writing and of their products, with a detailed analysis of the philosophical principles, specific purposes and research and writing techniques of selected major historians. Required of and open to senior history majors only.

Three credit hours

### SS Ed 361 Teaching Social Studies in Grades 7-12

Mr. James Whitten

The course examines the historical and philosophic foundations of the social studies with emphasis on innovation. The course presents new concepts, methods and materials that are changing the aims, content, and methods in the professional dimensions of social studies instruction. Required of history and social science area majors.

Three credit hours

# Administration of the College

## The State Board of Education

William O. Bailey, chairman, Jonesport; Bernal B. Allen, South Portland; Charles F. Bragg, II, Bangor; Herbert R. Brown, Brunswick; Vaughn Currier, Fort Kent; Frank S. Hoy, Lewiston; Mrs. Mary H. Manduca, Old Orchard Beach; Ernest C. Marriner, Waterville; Carroll L. McKusick, Guilford; Mrs. Jean Sampson, Lewiston.

## Commissioner of Education

William T. Logan, Jr.

## Executive Director of Professional Services

Hayden L. V. Anderson

# Officers of the Administration

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DIRECTOR OF STUDENT TEACHING .....	Melissa H. Costello (acting)
DIRECTOR OF PLACEMENT .....	Evelyn M. Littlefield
DIRECTOR OF ATHLETICS .....	Richard A. Costello

# Department Chairmen

EDUCATION .....	Melissa H. Costello
ENGLISH .....	John G. Hanna
FINE ARTS .....	Jerry L. Bowder
HEALTH AND PHYSICAL EDUCATION .....	Richard A. Costello
INDUSTRIAL ARTS .....	John Mitchell
SCIENCE AND MATHEMATICS .....	Robert N. Miller
SOCIAL SCIENCE .....	Angelo A. Lacognata

# Emeriti Personnel

ANDREWS, MIRIAM E., (1922-1960), B.S., M.A., Professor Emerita of Music  
BAILEY, FRANCIS L., (1940-1960), B.A., M.A., Ph.D., President Emeritus

# Personnel of the College

(\*) Indicates leave of absence, 1966-67

- AYERS, GEORGE H. (1959) Assistant Professor of Science; University of Maine, B.A., 1951; Ohio State University, M.A., 1959
- BARDEN, JOAN M. (1966) Associate Instructor, Village Elementary School; Gorham State College, B.S., 1960
- BARKER, GEORGE J. (1955) Assistant Professor of Science; Gorham State College, B.S., 1951; Boston University, M.S., 1958
- BARKER, MARY (1951) Instructor, Village Elementary School; Gorham State College, B.S., 1951; University of Maine, Ed.M., 1960
- BARKER, PAUL M. (1949) Associate Professor of Social Science; Wittenberg University, A.B., 1933; Kansas State College, M.S., 1942; Colgate Rochester Divinity School, B.D., 1945
- BENNETT, ALBERT B., JR. (1961-63, 1966) Associate Professor of Mathematics; Maine Maritime Academy, B.M.S., 1954; University of Maine, B. S., 1958, M.A., 1959; University of Michigan, Ed.D., 1966
- BERRY, ARTHUR O. (1955) Associate Professor of Industrial Arts; Gorham State College, B.S., 1950; Pennsylvania State University, Ed.M., 1954
- BOWDEN, REGINALD B. (1965) Director of Public Relations, Instructor of Journalism; University of Maine, B. A., 1955
- BOWDER, JERRY L. (1960) Professor of Music; University of Washington, B.A., 1952; Lewis and Clark College, M.M., 1956; Eastman School of Music, Ph.D., 1960
- BOWMAN, JAMES A. (1949) Associate Professor of Psychology; Gorham State College, B.S., 1947; Boston University, Ed.M., 1951
- BROOKS, KENNETH T. H. (1959) President of the College; University of New Hampshire, A.B., 1947; Boston University, Ed.M., 1948, Ed.D., 1955
- BROWN, JAMES E. (1964) Associate Instructor, Shaw Junior High School; Gorham State College, B.S., 1962
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## PERSONNEL

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- SCHONEBERG, SHELDON C. (1966) Associate Professor of Art; University of Southern California, B.F.A., 1949, M.F.A., 1951
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- \*SPENCER, DONALD C. (1961) Professor of Speech; Minnesota State Teachers College at Bemidji, B.S., 1947; University of Wisconsin, M.S., 1954, Ph.D., 1960
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- THOMPSON, GEORGE A. (1965) Instructor of English; Boston University, A.B., 1963, A.M., 1964
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## PERSONNEL

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- WITHERILL, ROBERT D. (1966) Assistant Professor of Economics; Colby College, A.B., 1947; University of Maine, M.A., 1953, M.Ed., 1962
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- ZAX, MANUEL (1966) Assistant Professor of Education; Yale University, B.A., 1949; Keene State College, M.Ed., 1963



# Statistical Information

## UNDERGRADUATE ENROLLMENT

Fall Semester, 1966

	Men	Women	Total
Special	8	21	29
Seniors	98	107	205
Juniors	114	118	232
Sophomores	143	175	318
Freshmen	122	178	300
	<hr/> 485	<hr/> 599	<hr/> 1084
Residents	202	372	574
Commuting	283	227	510
Maine Students	448	582	1030
Other States	33	17	50
Foreign Students	4	—	4

### By Curriculum or Program

	Men	Women	Total
General Education (Freshmen and Sophomores only)	184	323	507
(Juniors and Seniors Only)			
Kindergarten-Primary	—	58	58
Elementary	10	91	101
Junior High	140	54	194
(All Students)			
Art Education	4	25	29
Music Education	20	27	47
Industrial Arts	119	—	119
Special	8	21	29
	<hr/> 485	<hr/> 599	<hr/> 1084

## EVENING COLLEGE ENROLLMENT

Fall Semester, 1966

Graduate	260
Undergraduate	210
	<hr/> 470

### Summer Session Enrollment 1966

	Men	Women	Total
Graduate	213	136	349
Undergraduate	133	178	311
			<hr/> 660

### Degrees Awarded — June, 1966

	Men	Women	Total
Kindergarten-Primary	—	27	27
Elementary	6	58	64
Junior High	54	39	93
Art Education	—	11	11
Industrial Arts	17	—	17
Music Education	5	6	11
	<hr/> 82	<hr/> 141	<hr/> 223
Total Bachelor's Degrees	82	141	223
Total Master's Degrees	20	18	38
			<hr/> 261

# Index

Academic Calendar	Inside front cover
Academic Policies	19
Academic Program	25-42
Accreditation and Membership	3
Administrative Officers	73
Admission to the College	7-8
Advisory Program	19
Alumni Association	18
Art Courses	44-46
Art Curriculum	36-37
Athletics	17
Attendance	19
Biological Science Program	33-34
Campus Description	5-6
Campus Organizations	15-17
Core Requirements	26
Course Credits	20
Course of Study	43
Department Chairmen	73
Education Courses	47-49
Elementary Education Curriculum	28
Emeriti Personnel	73
English Courses	50-53
English Program	30
Expenses and Payments	9-10
Evening College	24
Faculty	74-78
Financial Assistance	11-13
French Courses	53
Grading System	20
Graduate School	22-23
Health and Physical Education Courses	54-55
Health Services	13
History of the College	3
History Courses	68-72
History Program	31
Housing	13
Industrial Arts Courses	56-59
Industrial Arts Curriculum	40-42
Junior High Education Curriculum	29
Kindergarten-Primary Education Curriculum	27
Location of College	4
Mathematics Courses	60-61
Mathematics Program	32
Music Courses	62-63
Music Curriculum	38-39
Objectives of the College	3
Personnel of the College	74
Placement of Graduates	18
Physical Education Courses	54-55
Psychology Courses	49
Secondary Education Curriculum	29
Scholarships	12-13
Science Area Program	35
Science Courses	64-67
Social Science Courses	68-72
Social Science Program	31
Statistical Information	79
Student Life and Services	11
Summer Session	24



